

Annual Administrative Code Supplement
2005 Edition

DEPARTMENT OF ENVIRONMENTAL QUALITY

DIRECTOR'S OFFICE

GREAT LAKES SHORELANDS

R 281.21
Source: 1998-2000 AACS.

R 281.22
Source: 1992 AACS.

R 281.23
Source: 1998-2000 AACS.

R 281.24
Source: 1992 AACS.

DEPARTMENT OF NATURAL RESOURCES
LAND AND WATER MANAGEMENT DIVISION
BETSIE RIVER NATURAL RIVER ZONING

R 281.31
Source: 1997 AACS.

R 281.32
Source: 1997 AACS.

R 281.33
Source: 1997 AACS.

R 281.34
Source: 1997 AACS.

R 281.35
Source: 1997 AACS.

R 281.36
Source: 1997 AACS.

R 281.37
Source: 1997 AACS.

R 281.38
Source: 1997 AACS.

R 281.39
Source: 1997 AACS.

R 281.40
Source: 1997 AACS.

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R 281.41
Source: 1997 AACS.

WHITE RIVER NATURAL RIVER ZONING

R 281.71
Source: 1997 AACS.

R 281.72
Source: 1997 AACS.

R 281.73
Source: 1997 AACS.

R 281.74
Source: 1997 AACS.

R 281.75
Source: 1997 AACS.

R 281.76
Source: 1997 AACS.

R 281.77
Source: 1997 AACS.

R 281.78
Source: 1997 AACS.

R 281.79
Source: 1997 AACS.

R 281.80
Source: 1997 AACS.

R 281.81
Source: 1997 AACS.

R 281.82
Source: 1997 AACS.

PERE MARQUETTE RIVER NATURAL RIVER ZONING

R 281.101 Definitions
Source: 2004 AACS.

R 281.102
Source: 2004 AACS.

R 281.103
Source: 2004 AACS.

R 281.104
Source: 2004 AACS.

R 281.105
Source: 2004 AACS.

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R 281.106
Source: 2004 AACS.

R 281.107
Source: 2004 AACS.

R 281.108
Source: 2004 AACS.

R 281.109
Source: 2004 AACS.

R 281.110
Source: 2004 AACS.

R 281.111
Source: 2004 AACS.

R 281.112
Source: 2004 AACS.

R 281.113
Source: 2004 AACS.

R 281.114
Source: 2004 AACS.

BETSIE RIVER NATURAL RIVER ZONING

R 281.131
Source: 1992 AACS.

R 281.132
Source: 1992 AACS.

R 281.133
Source: 1992 AACS.

R 281.134
Source: 1992 AACS.

R 281.135
Source: 1992 AACS.

R 281.136
Source: 1992 AACS.

R 281.137
Source: 1992 AACS.

R 281.138
Source: 1992 AACS.

R 281.139
Source: 1992 AACS.

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R 281.140
Source: 1992 AACS.

R 281.141
Source: 1992 AACS.

R 281.142
Source: 1992 AACS.

R 281.143
Source: 1992 AACS.

R 281.144
Source: 1992 AACS.

R 281.145
Source: 1992 AACS.

HURON RIVER NATURAL RIVER ZONING

R 281.151
Source: 1981 AACS.

R 281.152
Source: 1981 AACS.

R 281.153
Source: 1981 AACS.

R 281.154
Source: 1981 AACS.

R 281.155
Source: 1981 AACS.

R 281.156
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R 281.157
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R 281.158
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R 281.159
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R 281.160
Source: 1981 AACS.

R 281.161
Source: 1981 AACS.

R 281.162
Source: 1981 AACS.

R 281.163
Source: 1981 AACS.

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R 281.164
Source: 1981 AACS.

UPPER MANISTEE NATURAL RIVER ZONING

R 281.171
Source: 2004 AACS.

R 281.172
Source: 2004 AACS.

R 281.173
Source: 2004 AACS.

R 281.174
Source: 2004 AACS.

R 281.175
Source: 2004 AACS.

R 281.176
Source: 2004 AACS.

R 281.177
Source: 2004 AACS.

R 281.178
Source: 2004 AACS.

R 281.179
Source: 2004 AACS.

R 281.180
Source: 2004 AACS.

R 281.181
Source: 2004 AACS.

R 281.182
Source: 2004 AACS.

R 281.183
Source: 2004 AACS.

R 281.184
Source: 2004 AACS.

ROGUE RIVER NATURAL RIVER ZONING

R 281.201
Source: 1981 AACS.

R 281.202
Source: 1981 AACS.

R 281.203

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Source: 1981 AACS.

R 281.204

Source: 1981 AACS.

R 281.205

Source: 1981 AACS.

R 281.206

Source: 1981 AACS.

R 281.207

Source: 1981 AACS.

R 281.208

Source: 1981 AACS.

R 281.209

Source: 1981 AACS.

R 281.210

Source: 1981 AACS.

R 281.211

Source: 1981 AACS.

R 281.212

Source: 1981 AACS.

R 281.213

Source: 1981 AACS.

R 281.214

Source: 1981 AACS.

FLAT RIVER NATURAL RIVER ZONING

R 281.221

Source: 1985 AACS.

R 281.222

Source: 1985 AACS.

R 281.223

Source: 1985 AACS.

R 281.224

Source: 1985 AACS.

R 281.225

Source: 1985 AACS.

R 281.226

Source: 1985 AACS.

R 281.227

Source: 1985 AACS.

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R 281.228
Source: 1985 AACS.

R 281.229
Source: 1985 AACS.

R 281.230
Source: 1985 AACS.

R 281.231
Source: 1985 AACS.

R 281.232
Source: 1985 AACS.

R 281.233
Source: 1985 AACS.

R 281.234
Source: 1985 AACS.

BOARDMAN RIVER NATURAL RIVER ZONING

R 281.251
Source: 1981 AACS.

R 281.252
Source: 1981 AACS.

R 281.253
Source: 1981 AACS.

R 281.254
Source: 1981 AACS.

R 281.255
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R 281.256
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R 281.257
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R 281.258
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R 281.259
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R 281.260
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R 281.261
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R 281.262
Source: 1981 AACS.

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R 281.263
Source: 1981 AACS.

R 281.264
Source: 1981 AACS.

PIGEON RIVER NATURAL RIVER ZONING

R 281.271
Source: 1985 AACS.

R 281.272
Source: 1985 AACS.

R 281.273
Source: 1985 AACS.

R 281.274
Source: 1985 AACS.

R 281.275
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R 281.276
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R 281.277
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R 281.278
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R 281.279
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R 281.280
Source: 1985 AACS.

R 281.281
Source: 1985 AACS.

R 281.282
Source: 1985 AACS.

R 281.283
Source: 1985 AACS.

R 281.284
Source: 1985 AACS.

AU SABLE RIVER NATURAL RIVER ZONING

R 281.321
Source: 1990 AACS.

R 281.322
Source: 1990 AACS.

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R 281.323
Source: 1990 AACS.

R 281.324
Source: 1990 AACS.

R 281.325
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R 281.326
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R 281.327
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R 281.328
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R 281.329
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R 281.330
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R 281.331
Source: 1990 AACS.

R 281.332
Source: 1990 AACS.

R 281.333
Source: 1990 AACS.

R 281.334
Source: 1990 AACS.

PERE MARQUETTE RIVER NATURAL RIVER ZONING

R 281.341
Source: 1992 AACS.

R 281.342
Source: 1992 AACS.

R 281.343
Source: 1992 AACS.

R 281.344
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R 281.345
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R 281.346
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R 281.347
Source: 1992 AACS.

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R 281.348
Source: 1992 AACS.

R 281.349
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R 281.350
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R 281.351
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R 281.352
Source: 1992 AACS.

R 281.353
Source: 1992 AACS.

R 281.354
Source: 1992 AACS.

R 281.355
Source: 1992 AACS.

RIFLE RIVER NATURAL RIVER ZONING

R 281.361
Source: 1992 AACS.

R 281.362
Source: 1992 AACS.

R 281.363
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R 281.364
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R 281.365
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R 281.366
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R 281.368
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R 281.369
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R 281.370
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R 281.371
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R 281.372
Source: 1992 AACS.

R 281.373
Source: 1992 AACS.

R 281.374
Source: 1992 AACS.

R 281.375
Source: 1992 AACS.

WHITE RIVER NATURAL RIVER ZONING

R 281.381
Source: 1992 AACS.

R 281.382
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R 281.383
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R 281.384
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R 281.385
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R 281.388
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R 281.389
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R 281.390
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R 281.391
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R 281.392
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R 281.393
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R 281.394
Source: 1992 AACS.

R 281.395
Source: 1992 AACS.

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DEPARTMENT OF ENVIRONMENTAL QUALITY
DIRECTOR'S OFFICE
SAND DUNE AREAS

R 281.408
Source: 1981 AACS.

R 281.409
Source: 1981 AACS.

R 281.410
Source: 1981 AACS.

R 281.411
Source: 1981 AACS.

R 281.412
Source: 1981 AACS.

R 281.413
Source: 1981 AACS.

DEPARTMENT OF ENVIRONMENTAL QUALITY
LAND AND WATER MANAGEMENT DIVISION
INLAND LAKES AND STREAMS

R 281.811
Source: 1998-2000 AACS.

R 281.813
Source: 1998-2000 AACS.

R 281.814
Source: 1998-2000 AACS.

R 281.815
Source: 1998-2000 AACS.

R 281.816
Source: 1998-2000 AACS.

R 281.817
Source: 1998-2000 AACS.

R 281.819
Source: 1998-2000 AACS.

R 281.832
Source: 1998-2000 AACS.

R 281.833
Source: 1998-2000 AACS.

R 281.834
Source: 1998-2000 AACS.

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R 281.835
Source: 1998-2000 AACS.

R 281.837
Source: 1998-2000 AACS.

R 281.839
Source: 1998-2000 AACS.

R 281.841
Source: 1998-2000 AACS.

R 281.842
Source: 1998-2000 AACS.

R 281.843
Source: 1998-2000 AACS.

R 281.844
Source: 1998-2000 AACS.

DEPARTMENT OF ENVIRONMENTAL QUALITY

LAND AND WATER MANAGEMENT DIVISION

WETLAND PROTECTION

R 281.922a.
Source: 1998-2000 AACS.

R 281.924
Source: 1998-2000 AACS.

R 281.925
Source: 1998-2000 AACS.

DEPARTMENT OF NATURAL RESOURCES

LAW ENFORCEMENT DIVISION

SPECIAL LOCAL WATERCRAFT CONTROLS

R 281.703.12
Source: 1984 AACS.

R 281.705.5
Source: 1981 AACS.

R 281.707.8
Source: 1981 AACS.

R 281.709.4
Source: 1982 AACS.

R 281.709.5
Source: 1983 AACS.

R 281.710.7

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Source: 1980 AACS.

R 281.710.8

Source: 1980 AACS.

R 281.711.5

Source: 1982 AACS.

R 281.711.6

Source: 1984 AACS.

R 281.713.8

Source: 1984 AACS.

R 281.714.17

Source: 1984 AACS.

R 281.716.7

Source: 1980 AACS.

R 281.717.9

Source: 1980 AACS.

R 281.717.10

Source: 1984 AACS.

R 281.718.13

Source: 1982 AACS.

R 281.719.1

Source: 1997 AACS.

R 281.720.12

Source: 1985 AACS.

R 281.722.1

Source: 1997 AACS.

R 281.724.3

Source: 1985 AACS.

R 281.725.15

Source: 1985 AACS.

R 281.725.16

Source: 1985 AACS.

R 281.728.9

Source: 1980 AACS.

R 281.730.9

Source: 1983 AACS.

R 281.730.10

Source: 1984 AACS.

R 281.730.11

Source: 1985 AACS.

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R 281.736.7
Source: 1984 AACS.

R 281.739.7
Source: 1997 AACS.

R 281.739.10
Source: 1981 AACS.

R 281.740.10
Source: 1984 AACS.

R 281.740.11
Source: 1984 AACS.

R 281.740.12
Source: 1984 AACS.

R 281.744.7
Source: 1982 AACS.

R 281.744.8
Source: 1985 AACS.

R 281.746.8
Source: 1980 AACS.

R 281.746.9
Source: 1982 AACS.

R 281.746.10
Source: 1983 AACS.

R 281.747.18
Source: 1997 AACS.

R 281.747.21
Source: 1981 AACS.

R 281.747.22
Source: 1981 AACS.

R 281.754.12
Source: 1984 AACS.

R 281.759.11
Source: 1982 AACS.

R 281.761.8
Source: 1983 AACS.

R 281.763.44
Source: 1997 AACS.

R 281.763.45
Source: 1997 AACS.

R 281.763.54
Source: 1997 AACS.

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- R 281.763.58**
Source: 1980 AACCS.
- R 281.763.59**
Source: 1997 AACCS.
- R 281.763.60**
Source: 1980 AACCS.
- R 281.763.61**
Source: 1980 AACCS.
- R 281.763.62**
Source: 1980 AACCS.
- R 281.763.63**
Source: 1980 AACCS.
- R 281.763.64**
Source: 1980 AACCS.
- R 281.763.65**
Source: 1982 AACCS.
- R 281.763.67**
Source: 1982 AACCS.
- R 281.764.4**
Source: 1982 AACCS.
- R 281.770.2**
Source: 1998-2000 AACCS.
- R 281.770.13**
Source: 2002 AACCS.
- R 281.771.9**
Source: 1980 AACCS.
- R 281.774.18**
Source: 1983 AACCS.
- R 281.777.4**
Source: 1981 AACCS.
- R 281.780.9**
Source: 1983 AACCS.
- R 281.781.10**
Source: 1997 AACCS.
- R 281.781.12**
Source: 1980 AACCS.
- R 281.782.25**
Source: 1997 AACCS.
- R 281.782.26**
Source: 1985 AACCS.

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DEPARTMENT OF ENVIRONMENTAL QUALITY
LAND AND WATER MANAGEMENT DIVISION
INLAND LAKES AND STREAMS

R 281.811
Source: 1998-2000 AACS.

R 281.812
Source: 1985 AACS.

R 281.813
Source: 1998-2000 AACS.

R 281.814
Source: 1985 AACS.

R 281.815
Source: 1998-2000 AACS.

R 281.816
Source: 1985 AACS.

R 281.817
Source: 1982 AACS.

R 281.818
Source: 1982 AACS.

R 281.819
Source: 1985 AACS.

R 281.821
Source: 1982 AACS.

R 281.822
Source: 1997 AACS.

R 281.823
Source: 1985 AACS.

R 281.824
Source: 1982 AACS.

R 281.831
Source: 1997 AACS.

R 281.837
Source: 1985 AACS.

R 281.839
Source: 1998-2000 AACS.

R 281.841
Source: 1998-2000 AACS.

R 281.842
Source: 1998-2000 AACS.

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R 281.843
Source: 1985 AACS.

R 281.844
Source: 1998-2000 AACS.

GREAT LAKES SUBMERGED LANDS

R 281.901
Source: 1997 AACS.

R 281.902
Source: 1997 AACS.

R 281.903
Source: 1997 AACS.

R 281.904
Source: 1997 AACS.

R 281.905
Source: 1997 AACS.

R 281.906
Source: 1997 AACS.

R 281.907
Source: 1997 AACS.

R 281.908
Source: 1997 AACS.

R 281.909
Source: 1997 AACS.

R 281.910
Source: 1997 AACS.

R 281.911
Source: 1997 AACS.

R 281.912
Source: 1997 AACS.

R 281.913
Source: 1997 AACS.

R 281.914
Source: 1997 AACS.

R 281.915
Source: 1997 AACS.

WETLAND PROTECTION

R 281.921
Source: 1988 AACS.

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R 281.922
Source: 1988 AACS.

R 281.923
Source: 1988 AACS.

R 281.924
Source: 1998-2000 AACS.

R 281.925
Source: 1988 AACS.

LAND AND WATER MANAGEMENT DIVISION
WETLAND MITIGATION BANKING

R 281.951
Source: 1997 AACS.

R 281.952
Source: 1997 AACS.

R 281.953
Source: 1997 AACS.

R 281.954
Source: 1997 AACS.

R 281.955
Source: 1997 AACS.

R 281.956
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R 281.957
Source: 1997 AACS.

R 281.958
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R 281.959
Source: 1997 AACS.

R 281.960
Source: 1997 AACS.

R 281.961
Source: 1997 AACS.

DEPARTMENT OF NATURAL RESOURCES
LAW ENFORCEMENT DIVISION
STATE UNIFORM WATERWAY MARKING SYSTEM

R 281.1113

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Source: 2004 AACS.

DEPARTMENT OF NATURAL RESOURCES
LAW ENFORCEMENT DIVISION
MARINE COLLISIONS, ACCIDENT, OR OTHER CASUALTIES

R 281.1224
Source: 2002 AACS.

DEPARTMENT OF ENVIRONMENTAL QUALITY
LAND AND WATER MANAGEMENT DIVISION
DAMN SAFETY

R 281.1301
Source: 1993 AACS.

R 281.1302
Source: 1993 AACS.

R 281.1303
Source: 1993 AACS.

R 281.1304
Source: 1993 AACS.

R 281.1305
Source: 1993 AACS.

R 281.1306
Source: 1993 AACS.

R 281.1307
Source: 1993 AACS.

R 281.1308
Source: 1993 AACS.

R 281.1309
Source: 1993 AACS.

R 281.1310
Source: 1993 AACS.

R 281.1311
Source: 1993 AACS.

R 281.1312
Source: 1993 AACS.

R 281.1313
Source: 1993 AACS.

DEPARTMENT OF NATURAL RESOURCES

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STATE WATERWAYS COMMISSION
VESSELS CARRYING PASSENGERS FOR HIRE

R 281.2001
Source: 1997 AACS.

R 281.2005
Source: 1997 AACS.

R 281.2021
Source: 1997 AACS.

R 281.2022
Source: 1997 AACS.

R 281.2023
Source: 1997 AACS.

R 281.2024
Source: 1997 AACS.

R 281.2025
Source: 1997 AACS.

R 281.2026
Source: 1997 AACS.

R 281.2027
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R 281.2028
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R 281.2030
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R 281.2031
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R 281.2032
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R 281.2033
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R 281.2034
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R 281.2035
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R 281.2036
Source: 1997 AACS.

R 281.2037
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R 281.2044

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Source: 1997 AACS.

R 281.2045

Source: 1997 AACS.

R 281.2046

Source: 1997 AACS.

R 281.2051

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R 281.2052

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R 281.2053

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R 281.2054

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R 281.2055

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R 281.2057

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R 281.2058

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R 281.2061

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R 281.2062

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R 281.2063

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R 281.2064

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R 281.2065

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R 281.2067

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R 281.2068

Source: 1997 AACS.

R 281.2069

Source: 1997 AACS.

R 281.2070

Source: 1997 AACS.

R 281.2071

Source: 1997 AACS.

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R 281.2072
Source: 1997 AACS.

R 281.2075
Source: 1997 AACS.

R 281.2079
Source: 1997 AACS.

R 281.2081
Source: 1997 AACS.

R 281.2091
Source: 1997 AACS.

R 281.2101
Source: 1997 AACS.

R 281.2102
Source: 1997 AACS.

R 281.2104
Source: 1997 AACS.

R 281.2105
Source: 1997 AACS.

R 281.2106
Source: 1997 AACS.

R 281.2107
Source: 1997 AACS.

R 281.2108
Source: 1997 AACS.

R 281.2109
Source: 1997 AACS.

R 281.2110
Source: 1997 AACS.

R 281.2115
Source: 1997 AACS.

R 281.2116
Source: 1997 AACS.

R 281.2117
Source: 1997 AACS.

R 281.2118
Source: 1997 AACS.

R 281.2119
Source: 1997 AACS.

R 281.2120
Source: 1997 AACS.

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R 281.2121
Source: 1997 AACS.

R 281.2122
Source: 1997 AACS.

R 281.2123
Source: 1997 AACS.

R 281.2124
Source: 1997 AACS.

R 281.2125
Source: 1997 AACS.

R 281.2126
Source: 1997 AACS.

R 281.2127
Source: 1997 AACS.

R 281.2128
Source: 1997 AACS.

R 281.2129
Source: 1997 AACS.

R 281.2130
Source: 1997 AACS.

DEPARTMENT OF STATE
BUREAU OF DRIVER AND VEHICLE SERVICES
WATERCRAFT TITLING

R 281.2201
Source: 1980 AACS.

R 281.2202
Source: 1980 AACS.

R 281.2203
Source: 1980 AACS.

R 281.2204
Source: 1980 AACS.

R 281.2205
Source: 1980 AACS.

R 281.2206
Source: 1980 AACS.

R 281.2207
Source: 1980 AACS.

R 281.2208
Source: 1980 AACS.

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R 281.2209
Source: 1980 AACS.

R 281.2210
Source: 1980 AACS.

R 281.2211
Source: 1980 AACS.

R 281.2212
Source: 1980 AACS.

R 281.2213
Source: 1980 AACS.

R 281.2214
Source: 1980 AACS.

R 281.2215
Source: 1980 AACS.

R 281.2216
Source: 1980 AACS.

R 281.2217
Source: 1980 AACS.

R 281.2218
Source: 1980 AACS.

R 281.2219
Source: 1980 AACS.

DEPARTMENT OF NATURAL RESOURCES
LAW ENFORCEMENT DIVISION
VESSELS CARRYING PASSENGERS FOR HIRE
PART 1. GENERAL PROVISIONS

R 281.3101
Source: 1982 AACS.

R 281.3102
Source: 1982 AACS.

R 281.3103
Source: 1982 AACS.

R 281.3104
Source: 1982 AACS.

R 281.3105
Source: 1982 AACS.

R 281.3106
Source: 1982 AACS.

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R 281.3107
Source: 1982 AACS.

R 281.3108
Source: 1982 AACS.

R 281.3109
Source: 1982 AACS.

R 281.3110
Source: 1982 AACS.

R 281.3111
Source: 1982 AACS.

R 281.3112
Source: 1982 AACS.

R 281.3113
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R 281.3114
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R 281.3115
Source: 1982 AACS.

R 281.3116
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R 281.3117
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R 281.3118
Source: 1982 AACS.

R 281.3119
Source: 1982 AACS.

R 281.3120
Source: 1982 AACS.

R 281.3121
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R 281.3122
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R 281.3123
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R 281.3124
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R 281.3125
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R 281.3126
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R 281.3127
Source: 1982 AACS.

R 281.3128
Source: 1982 AACS.

R 281.3129
Source: 1982 AACS.

R 281.3130
Source: 1982 AACS.

PART 2. CLASS A VESSELS

R 281.3201
Source: 1982 AACS.

R 281.3202
Source: 1982 AACS.

R 281.3203
Source: 1982 AACS.

R 281.3204
Source: 1982 AACS.

R 281.3205
Source: 1982 AACS.

PART 3. CLASS B VESSELS

R 281.3301
Source: 1982 AACS.

R 281.3302
Source: 1982 AACS.

R 281.3303
Source: 1982 AACS.

PART 4. CLASS C VESSELS

R 281.3401
Source: 1982 AACS.

R 281.3402
Source: 1982 AACS.

R 281.3403
Source: 1982 AACS.

R 281.3404
Source: 1982 AACS.

R 281.3405
Source: 1982 AACS.

R 281.3406

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Source: 1982 AACS.

R 281.3407

Source: 1982 AACS.

PART 5. CLASS D VESSELS

R 281.3501

Source: 1982 AACS.

R 281.3502

Source: 1982 AACS.

R 281.3503

Source: 1982 AACS.

R 281.3504

Source: 1982 AACS.

R 281.3505

Source: 1982 AACS.

R 281.3506

Source: 1982 AACS.

DEPARTMENT OF NATURAL RESOURCES

LAW ENFORCEMENT DIVISION

SPECIAL LOCAL WATERCRAFT CONTROLS

R 281.770.2

Source: 1998-2000 AACS.

DEPARTMENT OF AGRICULTURE

CONDUCT OF REFERENDA AND ELECTIONS

R 282.1 Rescinded.

History: 1944 ACS 8; 1954 AC; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 282.2 Rescinded.

History: 1944 ACS 8; 1954 AC; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 282.3 Rescinded.

History: 1944 ACS 8; 1954 AC; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 282.4 Rescinded.

History: 1944 ACS 8; 1954 AC; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 282.5 Rescinded.

History: 1944 ACS 8; 1954 AC; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 282.6 Rescinded.

History: 1944 ACS 8; 1954 AC; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 282.7 Rescinded.

History: 1944 ACS 8; 1954 AC; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

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R 282.8 Rescinded.

History: 1944 ACS 8; 1954 AC; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 282.9 Rescinded.

History: 1944 ACS 8; 1954 AC; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 282.10 Rescinded.

History: 1944 ACS 8; 1954 AC; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 282.11 Rescinded.

History: 1944 ACS 8; 1954 AC; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

DEPARTMENT OF AGRICULTURE

ELECTION OF DIRECTORS AT SOIL CONSERVATION DISTRICT ANNUAL MEETING

R 282.21a Rescinded.

History: 1954 ACS 25, Eff. Feb. 14, 1961; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 282.21b Rescinded.

History: 1954 ACS 25, Eff. Feb. 14, 1961; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 282.22 Rescinded.

History: 1954 ACS 25, Eff. Feb. 14, 1961; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 282.23 Rescinded.

History: 1954 ACS 25, Eff. Feb. 14, 1961; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 282.24 Rescinded.

History: 1954 ACS 25, Eff. Feb. 14, 1961; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

DEPARTMENT OF AGRICULTURE

HEARING SCHEDULE

R 282.51 Rescinded.

History: 1954 ACS 100, Eff. Aug. 17, 1979; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 282.52 Rescinded.

History: 1954 ACS 100, Eff. Aug. 17, 1979; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 282.53 Rescinded.

History: 1954 ACS 100, Eff. Aug. 17, 1979; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

DEPARTMENT OF AGRICULTURE

EXECUTIVE DIVISION

REGULATION NO.50. WEATHER MODIFICATION CONTROL

R 285.50.1 Rescinded.

History: 1954 ACS 100, Eff. Aug. 17, 1979; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 285.50.2 Rescinded.

History: 1954 ACS 100, Eff. Aug. 17, 1979; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

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R 285.50.3 Rescinded.

History: 1954 ACS 100, Eff. Aug. 17, 1979; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 285.50.4 Rescinded.

History: 1954 ACS 100, Eff. Aug. 17, 1979; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 285.50.5 Rescinded.

History: 1954 ACS 100, Eff. Aug. 17, 1979; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 285.50.6 Rescinded.

History: 1954 ACS 100, Eff. Aug. 17, 1979; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 285.50.7 Rescinded.

History: 1954 ACS 100, Eff. Aug. 17, 1979; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 285.50.8 Rescinded.

History: 1954 ACS 100, Eff. Aug. 17, 1979; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 285.50.9 Rescinded.

History: 1954 ACS 100, Eff. Aug. 17, 1979; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 285.50.10 Rescinded.

History: 1954 ACS 100, Eff. Aug. 17, 1979; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 285.50.11 Rescinded.

History: 1954 ACS 100, Eff. Aug. 17, 1979; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

R 285.50.12 Rescinded.

History: 1954 ACS 100, Eff. Aug. 17, 1979; 1979 AC; rescinded 2005 MR 1, Eff. Dec. 28, 2004.

DEPARTMENT OF AGRICULTURE

ANIMAL HEALTH DIVISION

R 285.100.1

Source: 1997 AACS.

BOVINE TUBERCULOSIS OR BRUCELLOSIS

R 285.101.1

Source: 1997 AACS.

REGULATION NO. 102. TUBERCULIN TESTING AND CONTROL OF TUBERCULOSIS

R 285.102.1

Source: 1997 AACS.

REGULATION NO. 107. CONTAGIOUS AND INFECTIOUS DISEASES IN POULTRY

R 285.107.1

Source: 1998-2000 AACS.

REGULATION NO. 109. INTRASTATE MOVEMENT OF SWINE

R 285.109.1

Source: 1997 AACS.

REGULATION NO. 110. IMPORTATION OF SWINE

R 285.110.1
Source: 1997 AACS.

REGULATION NO. 114. CONTAGIOUS AND INFECTIOUS LIVESTOCK DISEASES

R 285.114.1
Source: 1998-2000 AACS.

REGULATION NO. 117. PUBLIC EXHIBITION OF LIVESTOCK

R 285.117.1
Source: 1998-2000 AACS.

REGULATION NO. 118. REDUCTION PLANTS FOR DISPOSAL OF DEAD ANIMALS

R 285.118.1
Source: 1998-2000 AACS.

REGULATION NO. 120. LICENSING OF LIVESTOCK YARDS

R 285.120.1
Source: 1997 AACS.

REGULATION NO. 121. LIVESTOCK DISEASES

R 285.121.1
Source: 1998-2000 AACS.

REGULATION NO. 123. PREVENTING SPREAD OF BRUCELLOSIS

R 285.123.1
Source: 1997 AACS.

R 285.123.2
Source: 1997 AACS.

REGULATION NO. 124. TUBERCULIN AND BLOOD TESTING

R 285.124.1
Source: 1998-2000 AACS.

REGULATION NO. 127. TUBERCULIN TESTING AND TESTING FOR CONTROL OF BRUCELLOSIS

R 285.127.1
Source: 1997 AACS.

REGULATION NO. 133. PUBLIC EXHIBITION OF POULTRY

R 285.133.1
Source: 1998-2000 AACS.

REGULATION NO. 135. SERUMS, ANTIGENS, AND VACCINES

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R 285.135.1
Source: 1998-2000 AACS.

REGULATION NO. 140. BRUCELLOSIS-FREE HERDS

R 285.140.1
Source: 1998-2000 AACS.

REGULATION NO. 141. APPROVAL OF CALFHOOD VACCINATIONS

R 285.141.1
Source: 1998-2000 AACS.

REGULATION NO. 142. AREA TESTING

R 285.142.1
Source: 1998-2000 AACS.

REGULATION NO. 145. MOVEMENT OF SHEEP

R 285.145.1
Source: 1998-2000 AACS.

REGULATION NO. 148. STATEWIDE MEAT INSPECTION

PART 1. GENERAL PROVISIONS

R 285.148.1
Source: 1997 AACS.

R 285.148.2
Source: 1997 AACS.

R 285.148.3
Source: 1997 AACS.

R 285.148.4
Source: 1997 AACS.

R 285.148.5
Source: 1997 AACS.

R 285.148.6
Source: 1997 AACS.

R 285.148.7
Source: 1997 AACS.

R 285.148.8
Source: 1997 AACS.

R 285.148.9
Source: 1997 AACS.

R 285.148.10

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Source: 1997 AACS.

R 285.148.11

Source: 1997 AACS.

R 285.148.12

Source: 1997 AACS.

R 285.148.13

Source: 1997 AACS.

R 285.148.14

Source: 1997 AACS.

R 285.148.15

Source: 1997 AACS.

R 285.148.16

Source: 1997 AACS.

R 285.148.17

Source: 1997 AACS.

R 285.148.18

Source: 1997 AACS.

R 285.148.19

Source: 1997 AACS.

R 285.148.20

Source: 1997 AACS.

R 285.148.21

Source: 1997 AACS.

PART 2. CONSTRUCTION, EQUIPMENT, AND SANITATION

R 285.148.101

Source: 1997 AACS.

R 285.148.102

Source: 1997 AACS.

R 285.148.103

Source: 1997 AACS.

R 285.148.104

Source: 1997 AACS.

R 285.148.105

Source: 1997 AACS.

R 285.148.106

Source: 1997 AACS.

R 285.148.107

Source: 1997 AACS.

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R 285.148.108
Source: 1997 AACS.

R 285.148.109
Source: 1997 AACS.

R 285.148.110
Source: 1997 AACS.

R 285.148.111
Source: 1997 AACS.

R 285.148.112
Source: 1997 AACS.

R 285.148.113
Source: 1997 AACS.

R 285.148.114
Source: 1997 AACS.

R 285.148.115
Source: 1997 AACS.

R 285.148.116
Source: 1997 AACS.

R 285.148.117
Source: 1997 AACS.

R 285.148.118
Source: 1997 AACS.

R 285.148.119
Source: 1997 AACS.

R 285.148.120
Source: 1997 AACS.

R 285.148.121
Source: 1997 AACS.

R 285.148.122
Source: 1997 AACS.

R 285.148.123
Source: 1997 AACS.

R 285.148.124
Source: 1997 AACS.

R 285.148.125
Source: 1997 AACS.

PART 3. PROTECTION OF PRODUCT

R 285.148.201
Source: 1997 AACS.

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R 285.148.202
Source: 1997 AACS.

R 285.148.203
Source: 1997 AACS.

R 285.148.204
Source: 1997 AACS.

R 285.148.205
Source: 1997 AACS.

R 285.148.206
Source: 1997 AACS.

R 285.148.207
Source: 1997 AACS.

R 285.148.208
Source: 1997 AACS.

R 285.148.209
Source: 1997 AACS.

R 285.148.210
Source: 1997 AACS.

R 285.148.211
Source: 1997 AACS.

R 285.148.212
Source: 1997 AACS.

R 285.148.213
Source: 1997 AACS.

R 285.148.214
Source: 1997 AACS.

R 285.148.215
Source: 1997 AACS.

R 285.148.216
Source: 1997 AACS.

R 285.148.217
Source: 1997 AACS.

R 285.148.218
Source: 1997 AACS.

PART 4. ANTE-MORTEM AND POST-MORTEM INSPECTIONS

R 285.148.301
Source: 1997 AACS.

R 285.148.302
Source: 1997 AACS.

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R 285.148.303
Source: 1997 AACs.

R 285.148.304
Source: 1997 AACs.

R 285.148.305
Source: 1997 AACs.

R 285.148.306
Source: 1997 AACs.

R 285.148.307
Source: 1997 AACs.

R 285.148.308
Source: 1997 AACs.

R 285.148.309
Source: 1997 AACs.

R 285.148.310
Source: 1997 AACs.

R 285.148.311
Source: 1997 AACs.

R 285.148.312
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R 285.148.313
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R 285.148.314
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R 285.148.315
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R 285.148.316
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R 285.148.317
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R 285.148.318
Source: 1997 AACs.

R 285.148.319
Source: 1997 AACs.

R 285.148.320
Source: 1997 AACs.

R 285.148.321

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Source: 1997 AACS.

R 285.148.322

Source: 1997 AACS.

R 285.148.323

Source: 1997 AACS.

R 285.148.324

Source: 1997 AACS.

R 285.148.325

Source: 1997 AACS.

R 285.148.326

Source: 1997 AACS.

R 285.148.327

Source: 1997 AACS.

R 285.148.328

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R 285.148.329

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R 285.148.330

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R 285.148.331

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R 285.148.332

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R 285.148.333

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R 285.148.334

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R 285.148.335

Source: 1997 AACS.

R 285.148.336

Source: 1997 AACS.

R 285.148.337

Source: 1997 AACS.

R 285.148.338

Source: 1997 AACS.

R 285.148.339

Source: 1997 AACS.

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R 285.148.340
Source: 1997 AACs.

R 285.148.341
Source: 1997 AACs.

R 285.148.342
Source: 1997 AACs.

R 285.148.343
Source: 1997 AACs.

R 285.148.360
Source: 1997 AACs.

R 285.148.361
Source: 1997 AACs.

R 285.148.362
Source: 1997 AACs.

R 285.148.363
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R 285.148.364
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R 285.148.365
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R 285.148.366
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R 285.148.367
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R 285.148.368
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R 285.148.369
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R 285.148.370
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R 285.148.371
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R 285.148.372
Source: 1997 AACs.

R 285.148.373
Source: 1997 AACs.

R 285.148.374
Source: 1997 AACs.

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R 285.148.375
Source: 1997 AACS.

R 285.148.376
Source: 1997 AACS.

R 285.148.377
Source: 1997 AACS.

R 285.148.378
Source: 1997 AACS.

R 285.148.379
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R 285.148.380
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R 285.148.381
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R 285.148.382
Source: 1997 AACS.

R 285.148.383
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R 285.148.384
Source: 1997 AACS.

R 285.148.385
Source: 1997 AACS.

R 285.148.386
Source: 1997 AACS.

R 285.148.387
Source: 1997 AACS.

PART 5. DISPOSAL OF DISEASED CARCASSES AND PARTS

R 285.148.401
Source: 1997 AACS.

R 285.148.402
Source: 1997 AACS.

R 285.148.403
Source: 1997 AACS.

R 285.148.404
Source: 1997 AACS.

R 285.148.405
Source: 1997 AACS.

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R 285.148.406
Source: 1997 AACS.

R 285.148.407
Source: 1997 AACS.

R 285.148.408
Source: 1997 AACS.

R 285.148.409
Source: 1997 AACS.

R 285.148.410
Source: 1997 AACS.

R 285.148.411
Source: 1997 AACS.

R 285.148.412
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R 285.148.413
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R 285.148.414
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R 285.148.415
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R 285.148.416
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R 285.148.417
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R 285.148.418
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R 285.148.419
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R 285.148.420
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R 285.148.421
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R 285.148.422
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R 285.148.423
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R 285.148.424
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R 285.148.425
Source: 1997 AACS.

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R 285.148.426
Source: 1997 AACS.

R 285.148.427
Source: 1997 AACS.

R 285.148.428
Source: 1997 AACS.

R 285.148.429
Source: 1997 AACS.

R 285.148.430
Source: 1997 AACS.

R 285.148.431
Source: 1997 AACS.

R 285.148.432
Source: 1997 AACS.

R 285.148.433
Source: 1997 AACS.

R 285.148.434
Source: 1997 AACS.

R 285.148.435
Source: 1997 AACS.

R 285.148.436
Source: 1997 AACS.

R 285.148.437
Source: 1997 AACS.

R 285.148.438
Source: 1997 AACS.

PART 6. TANKING AND RENDERING

R 285.148.501
Source: 1997 AACS.

R 285.148.502
Source: 1997 AACS.

R 285.148.503
Source: 1997 AACS.

R 285.148.504
Source: 1997 AACS.

R 285.148.505
Source: 1997 AACS.

R 285.148.506
Source: 1997 AACS.

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R 285.148.507
Source: 1997 AACS.

R 285.148.508
Source: 1997 AACS.

R 285.148.509
Source: 1997 AACS.

R 285.148.510
Source: 1997 AACS.

R 285.148.511
Source: 1997 AACS.

R 285.148.512
Source: 1997 AACS.

R 285.148.513
Source: 1997 AACS.

PART 7. MARKING, BRANDING, AND IDENTIFYING

R 285.148.601
Source: 1997 AACS.

R 285.148.602
Source: 1997 AACS.

R 285.148.603
Source: 1997 AACS.

R 285.148.604
Source: 1997 AACS.

R 285.148.605
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R 285.148.606
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R 285.148.607
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R 285.148.608
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R 285.148.609
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R 285.148.610
Source: 1997 AACS.

R 285.148.611
Source: 1997 AACS.

R 285.148.612
Source: 1997 AACS.

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R 285.148.613
Source: 1997 AACS.

R 285.148.614
Source: 1997 AACS.

R 285.148.615
Source: 1997 AACS.

PART 10. MISCELLANEOUS

R 285.148.901
Source: 1997 AACS.

R 285.148.902
Source: 1997 AACS.

R 285.148.903
Source: 1997 AACS.

R 285.148.904
Source: 1997 AACS.

R 285.148.905
Source: 1997 AACS.

R 285.148.906
Source: 1997 AACS.

R 285.148.907
Source: 1997 AACS.

R 285.148.908
Source: 1997 AACS.

R 285.148.909
Source: 1997 AACS.

R 285.148.910
Source: 1997 AACS.

R 285.148.911
Source: 1997 AACS.

R 285.148.912
Source: 1997 AACS.

R 285.148.913
Source: 1997 AACS.

R 285.148.914
Source: 1997 AACS.

REGULATION NO. 152. FEEDLOTS

R 285.152.1
Source: 1998-2000 AACS.

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R 285.152.2
Source: 1998-2000 AACS.

R 285.152.3
Source: 1998-2000 AACS.

R 285.152.4
Source: 1998-2000 AACS.

R 285.152.5
Source: 1998-2000 AACS.

R 285.152.6
Source: 1998-2000 AACS.

R 285.152.7
Source: 1998-2000 AACS.

R 285.152.8
Source: 1998-2000 AACS.

R 285.152.9
Source: 1998-2000 AACS.

R 285.152.10
Source: 1998-2000 AACS.

REGULATION NO. 156. DISPOSITION OF ANIMALS EXPOSED TO BRUCELLOSIS

R 285.156.1
Source: 1998-2000 AACS.

VALUE-ADDED AGRICULTURE PROCESSING AND AGRICULTURAL PRODUCTION VENTURES

R 285.351
Source: 2002 AACS.

R 285.352
Source: 2002 AACS.

R 285.353
Source: 2002 AACS.

PART 2. REPORTING AND COMPLIANCE REQUIREMENTS

R 285.354
Source: 2002 AACS.

R 285.355
Source: 2002 AACS.

R 285.356
Source: 2002 AACS.

REGULATION NO. 401. SEDIMENT TESTS

Annual Administrative Code Supplement
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R 285.401.1
Source: 1998-2000 AACS.

REGULATION NO. 403. MILK AND CREAM SOLD FOR DIRECT CONSUMPTION

R 285.403.1
Source: 1998-2000 AACS.

REGULATION NO. 406. COTTAGE CHEESE

R 285.406.1
Source: 1998-2000 AACS.

R 285.406.2
Source: 1998-2000 AACS.

DAIRY DIVISION

REGULATION NO. 409. PRODUCER SECURITY

R 285.409.1
Source: 1983 AACS.

FOOD INSPECTION DIVISION

REGULATION NO. 514. FOODS AND BEVERAGES OFFERED FOR SALE

R 285.514.1
Source: 1997 AACS.

AGRICULTURAL DEVELOPMENT DIVISION

REGULATION NO. 523. DRY EDIBLE BEANS

DEPARTMENT OF AGRICULTURE

R 285.523.1
Source: 1998-2000 AACS.

R. 285.523.2
Source: 1998-2000 AACS.

R 285.523.3
Source: 1998-2000 AACS.

R 285.523.4
Source: 1998-2000 AACS.

R 285.523.6
Source: 1998-2000 AACS.

R 285.523.7
Source: 1998-2000 AACS.

R 285.523.8
Source: 1998-2000 AACS.

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R 285.523.9
Source: 1998-2000 AACS.

R 285.523.10
Source: 1998-2000 AACS.

R 285.523.11
Source: 1998-2000 AACS.

R 285.523.12
Source: 1998-2000 AACS.

FOOD INSPECTION DIVISION

REGULATION NO. 530. CONTROLLED ATMOSPHERE STORAGE FOR APPLES

R 285.530.1
Source: 2002 AACS.

R 285.530.2
Source: 2002 AACS.

R 285.530.3
Source: 2002 AACS.

REGULATION NO. 541. SMOKED FISH

R 285.541.1
Source: 1997 AACS.

R 285.541.2
Source: 1997 AACS.

R 285.541.3
Source: 1997 AACS.

R 285.541.4
Source: 1997 AACS.

R 285.541.5
Source: 1997 AACS.

R 285.541.6
Source: 1997 AACS.

R 285.541.7
Source: 1997 AACS.

R 285.541.8
Source: 1997 AACS.

R 285.541.9
Source: 1997 AACS.

R 285.541.10

Annual Administrative Code Supplement
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Source: 1997 AACS.

R 285.541.11

Source: 1997 AACS.

REGULATION NO. 549. NONALCOHOLIC BEVERAGES

R 285.549.1

Source: 2002 AACS.

R 285.549.2

Source: 2002 AACS.

R 285.549.3

Source: 2002 AACS.

R 285.549.5

Source: 2002 AACS.

R 285.549.7

Source: 2002 AACS.

R 285.549.9

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R 285.549.10

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R 285.549.11

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R 285.549.12

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R 285.549.13

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R 285.549.14

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R 285.549.15

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R 285.549.16

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R 285.549.17

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R 285.549.18

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R 285.549.19

Source: 2002 AACS.

R 285.549.21

Source: 2002 AACS.

R 285.549.22

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Source: 2002 AACS.

R 285.549.24

Source: 2002 AACS.

R 285.549.25

Source: 2002 AACS.

R 285.549.29

Source: 2002 AACS.

REGULATION NO. 551. WEIGHTS, MEASURES, PACKAGING, AND LABELING

R 285.551.1

Source: 2003 AACS.

R 285.551.4

Source: 2003 AACS.

R 285.551.6

Source: 2003 AACS.

R 285.551.9

Source: 2003 AACS.

R 285.551.11

Source: 2003 AACS.

R 285.551.13

Source: 2003 AACS.

R 285.551.15

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R 285.551.16

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R 285.551.17

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R 285.551.18

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R 285.551.19

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R 285.551.20

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R 285.551.21

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R 285.551.22

Source: 2003 AACS.

R 285.551.23

Source: 2003 AACS.

R 285.551.24

Annual Administrative Code Supplement
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Source: 2003 AACS.

R 285.551.25

Source: 2003 AACS.

R 285.551.26

Source: 2003 AACS.

R 285.551.27

Source: 2003 AACS.

R 285.551.28

Source: 2003 AACS.

R 285.551.29

Source: 2003 AACS.

R 285.551.30

Source: 2003 AACS.

R 285.551.41

Source: 2003 AACS.

R 285.551.42

Source: 2003 AACS.

R 285.551.43

Source: 2003 AACS.

R 285.551.44

Source: 2003 AACS.

R 285.551.51

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R 285.551.52

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R 285.551.53

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R 285.551.54

Source: 2003 AACS.

R 285.551.56

Source: 2003 AACS.

R 285.551.58

Source: 2003 AACS.

R 285.551.61

Source: 2003 AACS.

R 285.551.62

Source: 2003 AACS.

R 285.551.63

Source: 2003 AACS.

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R 285.551.64
Source: 2003 AACS.

R 285.551.65
Source: 2003 AACS.

R 285.551.66
Source: 2003 AACS.

R 285.551.67
Source: 2003 AACS.

R 285.551.68
Source: 2003 AACS.

R 285.551.69
Source: 2003 AACS.

R 285.551.70
Source: 2003 AACS.

R 285.551.71
Source: 2003 AACS.

R 285.551.72
Source: 2003 AACS.

R 285.551.73
Source: 2003 AACS.

R 285.551.74
Source: 2003 AACS.

R 285.551.75
Source: 2003 AACS.

R 285.551.76
Source: 2003 AACS.

R 285.551.77
Source: 2003 AACS.

R 285.551.78
Source: 2003 AACS.

R 285.551.79
Source: 2003 AACS.

R 285.551.81
Source: 2003 AACS.

R 285.551.83
Source: 2003 AACS.

REGULATION NO. 554. LAST DAY OF SALE

R 285.554.1
Source: 2002 AACS.

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R 285.554.2
Source: 2002 AACS.

R 285.554.3
Source: 2002 AACS.

R 285.554.4
Source: 2002 AACS.

R 285.554.5
Source: 2002 AACS.

FOOD AND DAIRY DIVISION

REGULATION NO. 556. FOOD CONCESSIONS AT STATE AND COUNTY FAIRS

R 285.556.1
Source: 2002 AACS.

R 285.556.2
Source: 2002 AACS.

R 285.556.3
Source: 2002 AACS.

R 285.556.4
Source: 2002 AACS.

R 285.556.5
Source: 2002 AACS.

R 285.556.6
Source: 2002 AACS.

R 285.556.7
Source: 2002 AACS.

R 285.556.8
Source: 2002 AACS.

R 285.556.9
Source: 2002 AACS.

R 285.556.10
Source: 2002 AACS.

R 285.556.11
Source: 2002 AACS.

R 285.556.12
Source: 2002 AACS.

R 285.556.13
Source: 2002 AACS.

R 285.556.14

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Source: 2002 AACS.

R 285.556.15

Source: 2002 AACS.

R 285.556.16

Source: 2002 AACS.

R 285.556.17

Source: 2002 AACS.

R 285.556.18

Source: 2002 AACS.

R 285.556.19

Source: 2002 AACS.

R 285.556.20

Source: 2002 AACS.

FOOD INSPECTION DIVISION
REGULATION NO. 557. FOOD ESTABLISHMENT LICENSING

R 285.557.1

Source: 2002 AACS.

R 285.557.3

Source: 2002 AACS.

R 285.557.4

Source: 2002 AACS.

R 285.557.5

Source: 2002 AACS.

R 285.557.6

Source: 2002 AACS.

R 285.557.7

Source: 2002 AACS.

R 285.557.8

Source: 2002 AACS.

R 285.557.9

Source: 2002 AACS.

R 285.557.10

Source: 2002 AACS.

FOOD DIVISION
REGULATION NO. 558. TEMPORARY FOOD ESTABLISHMENTS

R 285.558.1

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Source: 2002 AACS.

R 285.558.2

Source: 2002 AACS.

R 285.558.3

Source: 2002 AACS.

R 285.558.4

Source: 2002 AACS.

R 285.558.5

Source: 2002 AACS.

REGULATION NO. 559. LIQUID MEASURING DEVICES

R 285.559.1

Source: 1981 AACS.

R 285.559.2

Source: 1981 AACS.

R 285.559.3

Source: 1981 AACS.

R 285.559.4

Source: 1981 AACS.

R 285.559.5

Source: 1982 AACS.

R 285.559.6

Source: 1981 AACS.

REGULATION NO. 560. GRAIN DEALERS

R 285.560.1

Source: 1984 AACS.

R 285.560.2

Source: 1984 AACS.

R 285.560.3

Source: 1984 AACS.

R 285.560.4

Source: 1984 AACS.

R 285.560.5

Source: 1984 AACS.

R 285.560.6

Source: 1984 AACS.

R 285.560.7

Source: 1984 AACS.

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R 285.560.8
Source: 1984 AACS.

R 285.560.9
Source: 1984 AACS.

R 285.560.10
Source: 1984 AACS.

R 285.560.11
Source: 1984 AACS.

REGULATION NO. 561. DISPENSING FACILITY REID VAPOR PRESSURE

R 285.561.1
Source: 1997 AACS.

R 285.561.2
Source: 1997 AACS.

R 285.561.3
Source: 1997 AACS.

R 285.561.4
Source: 1997 AACS.

R 285.561.5
Source: 1997 AACS.

R 285.561.6
Source: 1997 AACS.

R 285.561.7
Source: 1997 AACS.

R 285.561.8
Source: 1997 AACS.

R 285.561.9
Source: 1997 AACS.

R 285.561.10
Source: 1997 AACS.

REGULATION NO. 562. LABELING OF RETAIL GASOLINE DISPENSERS

R 285.562.1
Source: 1987 AACS.

R 285.562.2
Source: 1987 AACS.

R 285.562.3
Source: 1987 AACS.

R 285.562.4
Source: 1987 AACS.

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REGULATION NO. 563. RETAIL GASOLINE DEALER LICENSING

R 285.563.1
Source: 1985 AACS.

R 285.563.2
Source: 1985 AACS.

R 285.563.3
Source: 1985 AACS.

R 285.563.4
Source: 1985 AACS.

R 285.563.5
Source: 1985 AACS.

R 285.563.6
Source: 1985 AACS.

R 285.563.7
Source: 1985 AACS.

**REGULATION NO. 564. AUTOMOTIVE GASOLINE PURITY,
ADDITIVES, AND GRADING**

R 285.564.1
Source: 2003 AACS.

R 285.564.2
Source: 2003 AACS.

R 285.564.3
Source: 2003 AACS.

R 285.564.4
Source: 2003 AACS.

R 285.564.5
Source: 2003 AACS.

R 285.564.6
Source: 2003 AACS.

R 285.564.7
Source: 2003 AACS.

285.564.8
Source: 2003 AACS.

285.564.9
Source: 2003 AACS.

285.564.10
Source: 2003 AACS.

285.564.11
Source: 2003 AACS.

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R 285.564.13
Source: 2003 AACS.

REGULATION NO. 565. SULFITE-TREATED FOOD LABELING AND PLACARDING

R 285.565.1
Source: 1987 AACS.

R 285.565.2
Source: 1987 AACS.

R 285.565.3
Source: 1987 AACS.

R 285.565.4
Source: 1987 AACS.

R 285.565.5
Source: 1987 AACS.

R 285.565.6
Source: 1987 AACS.

R 285.565.7
Source: 1987 AACS.

REGULATION NO. 569. SMOKED FISH

R 285.569.1
Source: 1997 AACS.

R 285.569.2
Source: 1997 AACS.

R 285.569.3
Source: 1997 AACS.

R 285.569.4
Source: 1997 AACS.

R 285.569.5
Source: 1997 AACS.

R 285.569.6
Source: 1997 AACS.

R 285.569.7
Source: 1997 AACS.

R 285.569.8
Source: 1997 AACS.

R 285.569.9
Source: 1997 AACS.

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R 285.569.10
Source: 1997 AACS.

R 285.569.11
Source: 1997 AACS.

R 285.569.12
Source: 1997 AACS.

R 285.569.13
Source: 1997 AACS.

R 285.569.14
Source: 1997 AACS.

R 285.569.15
Source: 1997 AACS.

R 285.569.16
Source: 1997 AACS.

R 285.569.17
Source: 1997 AACS.

R 285.569.18
Source: 1997 AACS.

R 285.569.19
Source: 1997 AACS.

REGULATION NO. 605. DISPOSAL OF CHRISTMAS TREES

R 285.605.1
History: 1944 AC; 1954 AC; 1979 AC; rescinded 2001 MR 22, Eff. Dec. 4, 2001.

PLANT INDUSTRY DIVISION

REGULATION NO. 606. BLUEBERRY REGULATION

R 285.606.1
Source: 1984 AACS.

REGULATION NO. 610. INSPECTION FEES

R 285.610.1
Source: 1980 AACS.

R 285.610.2
Source: 1997 AACS.

R 285.610.3
Source: 1997 AACS.

REGULATION NO. 615. ALFALFA WEEVIL

R 285.615.1

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Source: 1997 AACS.

**REGULATION NO. 619. FRUIT TREE SCIONWOOD, UNDERSTOCK,
AND NURSERY STOCK**

R 285.619.1

Source: 1984 AACS.

R 285.619.2

Source: 1984 AACS.

R 285.619.3

Source: 1984 AACS.

R 285.619.4

Source: 1984 AACS.

R 285.619.31

Source: 1984 AACS.

REGULATION NO. 623. FIELD SEED CERTIFICATION

PART 1. GENERAL PROVISIONS

R 285.623.1

Source: 1997 AACS.

R 285.623.2

Source: 1997 AACS.

R 285.623.3

Source: 1997 AACS.

R 285.623.4

Source: 1997 AACS.

R 285.623.5

Source: 1997 AACS.

R 285.623.6

Source: 1997 AACS.

R 285.623.7

Source: 1997 AACS.

R 285.623.8

Source: 1997 AACS.

R 285.623.11

Source: 1997 AACS.

R 285.623.12

Source: 1997 AACS.

R 285.623.15

Source: 1997 AACS.

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PART 2. INDIVIDUAL CROP STANDARDS

R 285.623.21
Source: 1997 AACS.

R 285.623.21a
Source: 1997 AACS.

R 285.623.22
Source: 1997 AACS.

R 285.623.23
Source: 1997 AACS.

R 285.623.24
Source: 1997 AACS.

R 285.623.25
Source: 1997 AACS.

R 285.623.26
Source: 1997 AACS.

R 285.623.27
Source: 1997 AACS.

R 285.623.28
Source: 1997 AACS.

R 285.623.29
Source: 1997 AACS.

PESTICIDE AND PLANT PEST MANAGEMENT DIVISION

REGULATION NO. 623. FIELD CROP AND TURFGRASS SEED CERTIFICATION

PART 1. GENERAL PROVISIONS

R 285.623.101
Source: 1994 AACS.

R 285.623.102
Source: 1994 AACS.

R 285.623.103
Source: 1994 AACS.

R 285.623.104
Source: 1994 AACS.

R 285.623.105
Source: 1994 AACS.

R 285.623.106
Source: 1994 AACS.

R 285.623.107
Source: 1994 AACS.

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R 285.623.108
Source: 1994 AACS.

R 285.623.109
Source: 1994 AACS.

R 285.623.110
Source: 1994 AACS.

R 285.623.111
Source: 1994 AACS.

R 285.623.199
Source: 1994 AACS.

PART 2. FIELD CROP STANDARDS

R 285.623.201
Source: 1994 AACS.

R 285.623.202
Source: 1994 AACS.

R 285.623.203
Source: 1994 AACS.

R 285.623.204
Source: 1994 AACS.

R 285.623.205
Source: 1994 AACS.

R 285.623.206
Source: 1994 AACS.

R 285.623.207
Source: 1994 AACS.

R 285.623.208
Source: 1994 AACS.

R 285.623.209
Source: 1994 AACS.

R 285.623.210
Source: 1994 AACS.

R 285.623.211
Source: 1994 AACS.

R 285.623.212
Source: 1994 AACS.

R 285.623.213
Source: 1994 AACS.

R 285.623.214
Source: 1994 AACS.

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R 285.623.215
Source: 1994 AACS.

R 285.623.216
Source: 1997 AACS.

PART 3. TURFGRASS SEED STANDARDS

R 285.623.301
Source: 1994 AACS.

R 285.623.302
Source: 1994 AACS.

R 285.623.303
Source: 1994 AACS.

R 285.623.304
Source: 1994 AACS.

R 285.623.305
Source: 1994 AACS.

R 285.623.306
Source: 1994 AACS.

R 285.623.307
Source: 1994 AACS.

PART 4. SOD QUALITY SEED STANDARDS

R 285.623.401
Source: 1994 AACS.

R 285.623.402
Source: 1994 AACS.

R 285.623.403
Source: 1994 AACS.

R 285.623.404
Source: 1994 AACS.

REGULATION NO. 628. SEED POTATO CERTIFICATION

R 285.628.1
Source: 1994 AACS.

R 285.628.3
Source: 1994 AACS.

R 285.628.4
Source: 1994 AACS.

R 285.628.4a
Source: 1994 AACS.

R 285.628.5

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Source: 1994 AACS.

R 285.628.5a

Source: 1994 AACS.

R 285.628.6

Source: 1994 AACS.

R 285.628.7

Source: 1997 AACS.

R 285.628.8

Source: 1994 AACS.

R 285.628.9

Source: 1994 AACS.

R 285.628.11

Source: 1994 AACS.

R 285.628.12

Source: 1997 AACS.

R 285.628.14

Source: 1997 AACS.

R 285.628.15

Source: 1997 AACS.

R 285.628.16

Source: 1997 AACS.

R 285.628.17

Source: 1997 AACS.

R 285.628.18

Source: 1997 AACS.

R 285.628.19

Source: 1997 AACS.

R 285.628.20

Source: 1997 AACS.

R 285.628.21

Source: 1997 AACS.

R 285.628.22

Source: 1997 AACS.

R 285.628.23

Source: 1997 AACS.

R 285.628.24

Source: 1997 AACS.

R 285.628.25

Source: 1997 AACS.

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R 285.628.26
Source: 1997 AACS.

R 285.628.27
Source: 1997 AACS.

REGULATION NO. 633. RESTRICTED USE PESTICIDES

R 285.633.2
Source: 1985 AACS.

REGULATION NO. 636. PESTICIDE APPLICATORS

R 285.636.1
Source: 2002 AACS.

R 285.636.2
Source: 2002 AACS.

R 285.636.3
Source: 2002 AACS.

R 285.636.4
Source: 2002 AACS.

R 285.636.5
Source: 2002 AACS.

R 285.636.6
Source: 1991 AACS.

R 285.636.7
Source: 2002 AACS.

R 285.636.8
Source: 2002 AACS.

R 285.636.9
Source: 1991 AACS.

R 285.636.10
Source: 2002 AACS.

R 285.636.11
Source: 1991 AACS.

R 285.636.12
Source: 2002 AACS.

R 285.636.13
Source: 1991 AACS.

R 285.636.14
Source: 1991 AACS.

R 285.636.15
Source: 2002 AACS.

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R 285.636.16
Source: 1991 AACS.

R 285.636.17
Source: 1991 AACS.

REGULATION NO. 637. PESTICIDE USE

R 285.637.1
Source: 1995 AACS.

R 285.637.2
Source: 1995 AACS.

R 285.637.3
Source: 1992 AACS.

R 285.637.4
Source: 1992 AACS.

R 285.637.5
Source: 1995 AACS.

R 285.637.6
Source: 1992 AACS.

R 285.637.7
Source: 1992 AACS.

R 285.637.8
Source: 1992 AACS.

R 285.637.9
Source: 1992 AACS.

R 285.637.10
Source: 1992 AACS.

R 285.637.11
Source: 1995 AACS.

R 285.637.12
Source: 1995 AACS.

R 285.637.13
Source: 1992 AACS.

R 285.637.14
Source: 1992 AACS.

R 285.637.15
Source: 1995 AACS.

R 285.637.16
Source: 1992 AACS.

R 285.637.17
Source: 1995 AACS.

REGULATION NO. 640. COMMERCIAL PESTICIDE BULK STORAGE

R 285.640.1
Source: 1992 AACS.

R 285.640.2
Source: 1992 AACS.

R 285.640.3
Source: 1992 AACS.

R 285.640.4
Source: 1992 AACS.

R 285.640.5
Source: 1992 AACS.

R 285.640.6
Source: 1992 AACS.

R 285.640.7
Source: 1992 AACS.

R 285.640.8
Source: 1992 AACS.

R 285.640.9
Source: 1992 AACS.

R 285.640.10
Source: 1992 AACS.

R 285.640.11
Source: 1992 AACS.

R 285.640.12
Source: 1992 AACS.

R 285.640.13
Source: 1992 AACS.

R 285.640.14
Source: 1992 AACS.

R 285.640.15
Source: 1992 AACS.

R 285.640.16
Source: 1992 AACS.

R 285.640.17
Source: 1992 AACS.

R 285.640.18
Source: 1992 AACS.

R 285.640.19
Source: 1992 AACS.

REGULATION NO. 641. COMMERCIAL FERTILIZER BULK STORAGE

R 285.641.1
Source: 1998-2000 AACS.

R 285.641.2
Source: 1998-2000 AACS.

R 285.641.3
Source: 1998-2000 AACS.

R 285.641.4
Source: 1998-2000 AACS.

R 285.641.5
Source: 1998-2000 AACS.

R 285.641.6
Source: 1998-2000 AACS.

R 285.641.7
Source: 1998-2000 AACS.

R 285.641.8
Source: 1998-2000 AACS.

R 285.641.9
Source: 1998-2000 AACS.

R 285.641.10
Source: 1998-2000 AACS.

R 285.641.11
Source: 1998-2000 AACS.

R 285.641.12
Source: 1998-2000 AACS.

R 285.641.13
Source: 1998-2000 AACS.

R 285.641.14
Source: 1998-2000 AACS.

R 285.641.15
Source: 1998-2000 AACS.

R 285.641.16
Source: 1998-2000 AACS.

R 285.641.17
Source: 1998-2000 AACS.

R 285.641.18
Source: 1998-2000 AACS.

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REGULATION NO. 642. ON FARM FERTILIZER BULK STORAGE

R 285.642.1
Source: 2003 AACS.

R 285.642.2
Source: 2003 AACS.

R 285.642.3
Source: 2003 AACS.

R 285.642.4
Source: 2003 AACS.

R 285.642.5
Source: 2003 AACS.

R 285.642.6
Source: 2003 AACS.

R 285.642.7
Source: 2003 AACS.

R 285.642.8
Source: 2003 AACS.

R 285.642.9
Source: 2003 AACS.

R 285.642.10
Source: 2003 AACS.

R 285.642.11
Source: 2003 AACS.

R 285.642.12
Source: 2003 AACS.

R 285.642.13
Source: 2003 AACS.

LABORATORY DIVISION

REGULATION NO. 714. SEED LAW IMPLEMENTATION

R 285.714.1
Source: 1997 AACS.

R 285.714.2
Source: 1997 AACS.

R 285.714.3
Source: 1997 AACS.

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R 285.714.4
Source: 1997 AACS.

R 285.714.5
Source: 1997 AACS.

R 285.714.6
Source: 1997 AACS.

R 285.714.7
Source: 1997 AACS.

R 285.714.8
Source: 1997 AACS.

R 285.714.9
Source: 1997 AACS.

R 285.714.10
Source: 1997 AACS.

R 285.714.11
Source: 1997 AACS.

R 285.714.12
Source: 1997 AACS.

R 285.714.13
Source: 1997 AACS.

R 285.714.14
Source: 1997 AACS.

R 285.714.15
Source: 1997 AACS.

R 285.714.16
Source: 1997 AACS.

R 285.714.17
Source: 1997 AACS.

R 285.714.18
Source: 1997 AACS.

R 285.714.19
Source: 1997 AACS.

R 285.714.20
Source: 1997 AACS.

R 285.714.21
Source: 1997 AACS.

PESTICIDE AND PLANT PEST MANAGEMENT DIVISION
REGULATION NO. 715. SEED LAW IMPLEMENTATION

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R 285.715.1
Source: 1990 AACS.

R 285.715.2
Source: 1990 AACS.

R 285.715.3
Source: 1990 AACS.

R 285.715.4
Source: 1990 AACS.

R 285.715.5
Source: 1990 AACS.

R 285.715.6
Source: 1990 AACS.

R 285.715.7
Source: 1990 AACS.

R 285.715.8
Source: 1990 AACS.

R 285.715.9
Source: 1990 AACS.

R 285.715.10
Source: 1990 AACS.

R 285.715.11
Source: 1990 AACS.

R 285.715.12
Source: 1990 AACS.

R 285.715.13
Source: 1990 AACS.

R 285.715.14
Source: 1990 AACS.

FINANCE DIVISION

REGULATION NO. 804. RACE TRACK IMPROVEMENT

R 285.804
Source: 1997 AACS.

EXPOSITIONS AND RACING SECTION

REGULATION NO. 805. MATCHING ASSISTANCE TO FAIRS

R 285.805.1
Source: 1992 AACS.

R 285.805.3
Source: 1992 AACS.

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R 285.805.4
Source: 1992 AACS.

R 285.805.5
Source: 1992 AACS.

R 285.805.6
Source: 1992 AACS.

R 285.805.7
Source: 1984 AACS.

R 285.805.8
Source: 1984 AACS.

REGULATION NO. 808. PAYMENT OF BREEDERS' AWARDS

R 285.808.1
Source: 2004 AACS.

R 285.808.1a
Source: 2002 AACS.

R 285.808.2
Source: 2002 AACS.

R 285.808.2a
Source: 2002 AACS.

R 285.808.3
Source: 2002 AACS.

R 285.808.4
Source: 2002 AACS.

**REGULATION NO. 809. THOROUGHBRED ALLOTMENTS FOR TRAINING
AND STABLING FACILITIES**

R 285.809.1
Source: 1983 AACS.

R 285.809.2
Source: 1983 AACS.

R 285.809.3
Source: 1983 AACS.

R 285.809.4
Source: 1983 AACS.

R 285.809.5
Source: 1983 AACS.

R 285.809.6
Source: 1983 AACS.

R 285.809.7
Source: 1983 AACS.

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**REGULATION NO. 810. THOROUGHBRED BREEDERS' AWARDS
AND STATE SUPPLEMENTS**

R 285.810.1
Source: 1998-2000 AACS.

R 285.810.2
Source: 1998-2000 AACS.

R 285.810.3
Source: 1983 AACS.

R 285.810.4
Source: 1998-2000 AACS.

R 285.810.5
Source: 1983 AACS.

R 285.810.6
Source: 1998-2000 AACS.

R 285.810.7
Source: 1997 AACS.

R 285.810.9
Source: 1998-2000 AACS.

R 285.810.10
Source: 1998-2000 AACS.

REGULATION NO. 811. PREMIUM ALLOTMENTS TO FAIRS AND EXPOSITIONS

R 285.811.1
Source: 2004 AACS.

R 285.811.1a
Source: 2004 AACS.

R 285.811.2
Source: 2004 AACS.

R 285.811.3
Source: 2004 AACS.

R 285.811.4
Source: 2004 AACS.

R285.811.5
Source: 2004 AACS.

R 285.811.5a
Source: 2004 AACS.

R 285.811.6
Source: 2004 AACS.

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R 285.811.7
Source: 1997 AACS.

R 285.811.8
Source: 1985 AACS.

R 285.811.9
Source: 2004 AACS.

R 285.811.10
Source: 2004 AACS.

REGULATION NO. 812. STATE AID FOR HARNESS HORSE RACING AT FAIRS

R 285.812.1
Source: 2004 AACS.

R 285.812.1a
Source: 2004 AACS.

R 285.812.2
Source: 2004 AACS.

R 285.812.3
Source: 2002 AACS.

R 285.812.4
Source: 2004 AACS.

R 285.812.5
Source: 2004 AACS.

R 285.812.5a
Source: 1998-2000 AACS.

R 285.812.6
Source: 2004 AACS.

R 285.812.6a
Source: 1998-2000 AACS.

R 285.812.7
Source: 2004 AACS.

R 285.812.7a
Source: 2004 AACS.

R 285.812.8
Source: 1998-2000 AACS.

R 285.812.9
Source: 1998-2000 AACS.

REGULATION NO. 814. MICHIGAN AND FEDELE FAURI FUTURITY RACES

R 285.814.1

Annual Administrative Code Supplement
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Source: 2004 AACS.

R 285.814.1a

Source: 2004 AACS.

R 285.814.1b

Source: 2004 AACS.

R 285.814.2

Source: 2004 AACS.

R 285.814.3

Source: 2004 AACS.

R 285.814.4

Source: 2004 AACS.

R 285.814.5

Source: 2002 AACS.

R 285.814.6

Source: 1981 AACS.

R 285.814.7

Source: 2002 AACS.

R 285.814.8

Source: 1981 AACS.

R 285.814.10

Source: 2004 AACS.

**REGULATION NO. 815. STATE AID FOR REGISTERED LIGHT HORSE RACES
AT FAIRS**

R 285.815.1

Source: 1981 AACS.

R 285.815.1a

Source: 1981 AACS.

R 285.815.2

Source: 1981 AACS.

R 285.815.3

Source: 1981 AACS.

R 285.815.4

Source: 1981 AACS.

R 285.815.5

Source: 1981 AACS.

R 285.815.6

Source: 1981 AACS.

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R 285.815.8
Source: 1981 AACS.

R 285.815.11
Source: 1981 AACS.

R 285.815.15
Source: 1981 AACS.

R 285.815.16
Source: 1981 AACS.

**REGULATION NO. 817. QUARTER HORSE BREEDERS' AWARDS
AND STATE SUPPLEMENTS**

R 285.817.1
Source: 2004 AACS.

R 285.817.1a
Source: 2004 AACS.

R 285.817.2
Source: 2004 AACS.

R 285.817.3
Source: 2004 AACS.

R 285.817.4
Source: 2004 AACS.

R 285.817.5
Source: 2004 AACS.

R 285.817.5a
Source: 2004 AACS.

R 285.817.6
Source: 2004 AACS.

R 285.817.7
Source: 2004 AACS.

REGULATION NO. 818. MICHIGAN SIRE STAKE RACES

R 285.818.1
Source: 2003 AACS.

R 285.818.2
Source: 2003 AACS.

R 285.818.3
Source: 2003 AACS.

R 285.818.4
Source: 2003 AACS.

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R 285.818.5
Source: 2003 AACS.

R 285.818.6
Source: 2003 AACS.

R 285.818.7
Source: 2003 AACS.

**REGULATION NO. 819. APPALOOSA HORSE BREEDERS' AWARDS
AND STATE SUPPLEMENTS**

R 285.819.1
Source: 1982 AACS.

R 285.819.1a
Source: 1982 AACS.

R 285.819.2
Source: 1982 AACS.

R 285.819.5
Source: 1982 AACS.

R 285.819.7
Source: 1997 AACS.

REGULATION NO. 820. MICHIGAN-BRED PARI-MUTUEL RACES

R 285.820.1
Source: 2004 AACS.

R 285.820.1a
Source: 2004 AACS.

R 285.820.2
Source: 2004 AACS.

R 285.820.3
Source: 2004 AACS.

R 285.820.4
Source: 2004 AACS.

R 285.820.5
Source: 2002 AACS.

R 285.820.6
Source: 2004 AACS.

REGULATION NO. 821. THOROUGHBRED SIRE STAKE RACES

R 285.821.1
Source: 1998-2000 AACS.

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- R 285.821.2**
Source: 1983 AACS.
- R 285.821.3**
Source: 1998-2000 AACS.
- R 285.821.4**
Source: 1998-2000 AACS.
- R 285.821.5**
Source: 1983 AACS.
- R 285.821.6**
Source: 1998-2000 AACS.
- R 285.821.7**
Source: 1983 AACS.
- R 285.821.8**
Source: 1998-2000 AACS.
- R 285.821.9**
Source: 1998-2000 AACS.
- R 285.821.10**
Source: 1998-2000 AACS.

**REGULATION NO. 822. ARABIAN BREEDERS' AWARDS
AND STATE SUPPLEMENTS**

- R 285.822.1**
Source: 1985 AACS.
- R 285.822.2**
Source: 1985 AACS.
- R 285.822.3**
Source: 1985 AACS.
- R 285.822.4**
Source: 1985 AACS.
- R 285.822.5**
Source: 1985 AACS.
- R 285.822.6**
Source: 1985 AACS.
- R 285.822.7**
Source: 1985 AACS.

**REGULATION NO. 823. PAINT HORSE BREEDERS' AWARDS, OWNERS' AWARDS, AND STATE
SUPPLEMENTS**

- R 285.823.1**
Source: 2004 AACS.

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R 285.8231a
Source: 2004 AACs.

R 285.823.2
Source: 2004 AACs.

R 285.823.3
Source: 2004 AACs.

R 285.823.4
Source: 2004 AACs.

R 285.823.5
Source: 2004 AACs.

R 285.823.5a
Source: 2004 AACs.

R 285.823.6
Source: 2004 AACs.

R 285.823.7
Source: 2004 AACs.

DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES
BOARD OF LANDSCAPE ARCHITECTS

R 285.901.1
Source: 1997 AACs.

R 285.901.2
Source: 1997 AACs.

R 285.901.3
Source: 1997 AACs.

R 285.901.4
Source: 1997 AACs.

R 285.901.5
Source: 1997 AACs.

R 285.901.2
Source: 1997 AACs.

R 285.901.3
Source: 1997 AACs.

R 285.901.4
Source: 1997 AACs.

R 285.901.5
Source: 1997 AACs.

FAIRS, EXHIBITIONS, AND RACING DIVISION:

REGULATION 852, UPPER PENINSULA STATE FAIR

R 285.1101
Source: 2002 AACS.

R 285.1102
Source: 2002 AACS.

R 285.1103
Source: 2002 AACS.

R 285.1104
Source: 2002 AACS.

R 285.1105
Source: 2002 AACS.

R 285.1106
Source: 2002 AACS.

R 285.1201
Source: 2002 AACS.

R 285.1202
Source: 2002 AACS.

R 285.1203
Source: 2002 AACS.

R 285.1204
Source: 2002 AACS.

R 285.1301
Source: 2002 AACS.

R 285.1302
Source: 2002 AACS.

R 285.1303
Source: 2002 AACS.

R 285.1304
Source: 2002 AACS.

R 285.1305
Source: 2002 AACS.

R 285.1306
Source: 2002 AACS.

R 285.1307
Source: 2002 AACS.

R 285.1308
Source: 2002 AACS.

R 285.1309

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Source: 2002 AACS.

R 285.1310

Source: 2002 AACS.

R 285.1311

Source: 2002 AACS.

R 285.1312

Source: 2002 AACS.

R 285.1313

Source: 2002 AACS.

R 285.1314

Source: 2002 AACS.

R 285.1315

Source: 2002 AACS.

R 285.1316

Source: 2002 AACS.

R 285.1317

Source: 2002 AACS.

R 285.1318

Source: 2002 AACS.

R 285.1319

Source: 2002 AACS.

R 285.1320

Source: 2002 AACS.

R 285.1321

Source: 2002 AACS.

R 285.1322

Source: 2002 AACS.

R 285.1323

Source: 2002 AACS.

R 285.1324

Source: 2002 AACS.

R 285.1325

Source: 2002 AACS.

R 285.1326

Source: 2002 AACS.

R 285.1327

Source: 2002 AACS.

R 285.1328s.

Source: 2002 AACS.

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R 285.1329
Source: 2002 AACS.

R 285.1330
Source: 2002 AACS.

R 285.1331
Source: 2002 AACS.

R 285.1332
Source: 2002 AACS.

R 285.1401
Source: 2002 AACS.

R 285.1402
Source: 2002 AACS.

R 285.1403
Source: 2002 AACS.

R 285.1404
Source: 2002 AACS.

R 285.1405
Source: 2002 AACS.

R 285.1406
Source: 2002 AACS.

R 285.1407
Source: 2002 AACS.

R 285.1408
Source: 2002 AACS.

PART 5. AGRICULTURAL EXHIBITS

R 285.1501
Source: 2002 AACS.

R 285.1502
Source: 2002 AACS.

R 285.1503
Source: 2002 AACS.

R 285.1504
Source: 2002 AACS.

R 285.1505
Source: 2002 AACS.

R 285.1506
Source: 2002 AACS.

R 285.1507
Source: 2002 AACS.

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R 285.1508
Source: 2002 AACS.

R 285.1509
Source: 2002 AACS.

R 285.1510
Source: 2002 AACS.

R 285.1510a
Source: 2002 AACS.

R 285.1511
Source: 2002 AACS.

R 285.1512
Source: 2002 AACS.

R 285.1513
Source: 2002 AACS.

R 285.1514
Source: 2002 AACS.

R 285.1515
Source: 2002 AACS.

R 285.1516
Source: 2002 AACS.

R 285.1517
Source: 2002 AACS.

R 285.1601
Source: 2002 AACS.

R 285.1602
Source: 2002 AACS.

R 285.1603
Source: 2002 AACS.

R 285.1604
Source: 2002 AACS.

R 285.1605
Source: 2002 AACS.

R 285.1606
Source: 2002 AACS.

R 285.1607
Source: 2002 AACS.

R 285.1608
Source: 2002 AACS.

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R 285.1609
Source: 2002 AACS.

R 285.1701
Source: 2002 AACS.

R 285.1702
Source: 2002 AACS.

R 285.1703
Source: 2002 AACS.

R 285.1704
Source: 2002 AACS.

R 285.1705
Source: 2002 AACS.

R 285.1801
Source: 2002 AACS.

R 285.1901
Source: 2002 AACS.

R 285.1902
Source: 2002 AACS.

R 285.1903
Source: 2002 AACS.

R 285.1904
Source: 2002 AACS.

R 285.1905
Source: 2002 AACS.

R 285.1906
Source: 2002 AACS.

R 285.1907
Source: 2002 AACS.

MICHIGAN FAMILY FARM DEVELOPMENT AUTHORITY

GENERAL RULES

PART 1. GENERAL PROVISIONS

R 285.2101
Source: 1983 AACS.

R 285.2102
Source: 1983 AACS.

R 285.2103
Source: 1983 AACS.

R 285.2104

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Source: 1983 AACS.

R 285.2105

Source: 1983 AACS.

R 285.2106

Source: 1983 AACS.

R 285.2107

Source: 1983 AACS.

R 285.2108

Source: 1983 AACS.

R 285.2109

Source: 1983 AACS.

R 285.2110

Source: 1983 AACS.

R 285.2111

Source: 1983 AACS.

R 285.2112

Source: 1983 AACS.

R 285.2113

Source: 1983 AACS.

PART 2. APPLICANT ELIGIBILITY AND APPLICATIONS

R 285.2201

Source: 1983 AACS.

R 285.2202

Source: 1983 AACS.

R 285.2203

Source: 1983 AACS.

R 285.2204

Source: 1983 AACS.

R 285.2205

Source: 1983 AACS.

PART 3. INDIVIDUAL AGRICULTURAL REVENUE BOND PROGRAM

R 285.2301

Source: 1983 AACS.

R 285.2302

Source: 1983 AACS.

R 285.2303

Source: 1983 AACS.

R 285.2304

Source: 1983 AACS.

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R 285.2305
Source: 1983 AACS.

R 285.2306
Source: 1983 AACS.

DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES
STATE BOARD OF VETERINARY EXAMINERS
PROCEDURE FOR CONDUCTING HEARINGS

R 287.1
Source: 1997 AACS.

GENERAL RULES

R 287.451
Source: 1997 AACS.

R 287.452
Source: 1997 AACS.

R 287.453
Source: 1997 AACS.

R 287.454
Source: 1997 AACS.

R 287.455
Source: 1997 AACS.

R 287.456
Source: 1997 AACS.

R 287.457
Source: 1997 AACS.

R 287.458
Source: 1997 AACS.

R 287.459
Source: 1997 AACS.

ANIMAL TECHNICIAN CERTIFICATION

R 287.481
Source: 1997 AACS.

R 287.482
Source: 1997 AACS.

R 287.483
Source: 1997 AACS.

R 287.484
Source: 1997 AACS.

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R 287.485
Source: 1997 AACS.

R 287.486
Source: 1997 AACS.

R 287.487
Source: 1997 AACS.

R 287.488
Source: 1997 AACS.

R 287.489
Source: 1997 AACS.

R 287.490
Source: 1997 AACS.

R 287.491
Source: 1997 AACS.

R 287.492
Source: 1997 AACS.

DEPARTMENT OF AGRICULTURE
ANIMAL INDUSTRY DIVISION
BODIES OF DEAD ANIMALS

R 287.651
Source: 1995 AACS.

R 287.652
Source: 1995 AACS.

R 287.653
Source: 1995 AACS.

R 287.654
Source: 1995 AACS.

R 287.655
Source: 1995 AACS.

R 287.656
Source: 1998-2000 AACS.

ANIMAL INDUSTRY

R 287.701
Source: 1994 AACS.

R 287.702
Source: 1994 AACS.

R 287.703
Source: 1994 AACS.

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R 287.704
Source: 1994 AACS.

R 287.705
Source: 1994 AACS.

R 287.706
Source: 1994 AACS.

R 287.707
Source: 1994 AACS.

R 287.708
Source: 1994 AACS.

R 287.709
Source: 1994 AACS.

R 287.710
Source: 1994 AACS.

R 287.711
Source: 1994 AACS.

R 287.712
Source: 1994 AACS.

R 287.713
Source: 1994 AACS.

FAIRS, EXHIBITIONS AND RACING DIVISION
REGULATION NO. 851 MICHIGAN STATE FAIR
PART 1. GENERAL PROVISIONS

R 291.301
Source: 2002 AACS.

R 291.303
Source: 2002 AACS.

R 291.304
Source: 2002 AACS.

BUSINESS PROCEDURES

R 291.311
Source: 2002 AACS.

R 291.312
Source: 2002 AACS.

R 291.313
Source: 2002 AACS.

R 291.314
Source: 2002 AACS.

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R 291.315
Source: 2002 AACS.

R 291.316
Source: 2002 AACS.

R 291.317
Source: 2002 AACS.

R 291.318
Source: 2002 AACS.

R 291.319
Source: 2002 AACS.

R 291.321
Source: 2002 AACS.

R 291.322
Source: 2002 AACS.

PART 2. EXHIBITORS AND CONCESSIONAIRES AT FAIR

R 291.331
Source: 2002 AACS.

R 291.332
Source: 2002 AACS.

R 291.333
Source: 2002 AACS.

R 291.334
Source: 2002 AACS.

R 291.335
Source: 2002 AACS.

R 291.336
Source: 2002 AACS.

R 291.337
Source: 2002 AACS.

R 291.338
Source: 2002 AACS.

R 291.339
Source: 2002 AACS.

R 291.341
Source: 2002 AACS.

R 291.342
Source: 2002 AACS.

R 291.343

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Source: 2002 AACS.

R 291.344

Source: 2002 AACS.

R 291.345

Source: 2002 AACS.

R 291.346

Source: 2002 AACS.

R 291.347

Source: 2002 AACS.

R 291.351

Source: 2002 AACS.

R 291.352

Source: 2002 AACS.

R 291.353

Source: 2002 AACS.

R 291.354

Source: 2002 AACS.

R 291.355

Source: 2002 AACS.

R 291.356

Source: 2002 AACS.

R 291.357

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R 291.358

Source: 2002 AACS.

R 291.359

Source: 2002 AACS.

R 291.360

Source: 2002 AACS.

R 291.363

Source: 2002 AACS.

R 291.365

Source: 2002 AACS.

FOOD CONCESSIONS

R 291.375

Source: 2002 AACS.

R 291.377

Source: 2002 AACS.

R 291.378

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Source: 2002 AACS.

R 291.379

Source: 2002 AACS.

R 291.380

Source: 2002 AACS.

R 291.381

Source: 2002 AACS.

PART 3. AGRICULTURAL EXHIBITORS AT FAIRS

R 291.391

Source: 2002 AACS.

R 291.392

Source: 2002 AACS.

R 291.393

Source: 2002 AACS.

R 291.394

Source: 2002 AACS.

R 291.395

Source: 2002 AACS.

R 291.397

Source: 2002 AACS.

R 291.398

Source: 2002 AACS.

R 291.398a

Source: 2002 AACS.

R 291.399

Source: 2002 AACS.

R 291.400

Source: 2002 AACS.

R 291.400a

Source: 2002 AACS.

R 291.401

Source: 2002 AACS.

R 291.402

Source: 2002 AACS.

R 291.403

Source: 2002 AACS.

R 291.404

Source: 2002 AACS.

R 291.405

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Source: 2002 AACS.

R 291.407

Source: 2002 AACS.

R 291.413

Source: 2002 AACS.

ANIMALS

R 291.422

Source: 2002 AACS.

R 291.423

Source: 2002 AACS.

R 291.424

Source: 2002 AACS.

R 291.425

Source: 2002 AACS.

R 291.426

Source: 2002 AACS.

R 291.427

Source: 2002 AACS.

PART 4. COMMUNITY ARTS EXHIBITORS AT FAIR

R 291.441

Source: 2002 AACS.

R 291.442

Source: 2002 AACS.

R 291.443

Source: 2002 AACS.

R 291.449

Source: 2002 AACS.

R 291.450

Source: 2002 AACS.

PART 7. NON FAIR LESSESS AND PERMITS

R 291.471

Source: 2002 AACS.

R 291.472

Source: 2002 AACS.

R 291.473

Source: 2002 AACS.

R 291.475

Source: 2002 AACS.

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R 291.476
Source: 2002 AACS.

R 291.478
Source: 2002 AACS.

R 291.479
Source: 2002 AACS.

R 291.480
Source: 2002 AACS.

PART 9. HEARINGS

R 291.491
Source: 2002 AACS.

R 291.492
Source: 2002 AACS.

R 291.493
Source: 2002 AACS.

R 291.494
Source: 2002 AACS.

R 291.495
Source: 2002 AACS.

R 291.496
Source: 2002 AACS.

R 291.497
Source: 2002 AACS.

DEPARTMENT OF ENVIRONMENTAL QUALITY
SUPERVISOR OF WELLS
PUBLIC HEARINGS

R 299.251
Source: 1997 AACS.

R 299.252
Source: 1997 AACS.

R 299.253
Source: 1997 AACS.

R 299.254
Source: 1997 AACS.

R 299.255
Source: 1997 AACS.

R 299.256

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Source: 1997 AACS.

R 299.257

Source: 1997 AACS.

R 299.258

Source: 1997 AACS.

DEPARTMENT OF NATURAL RESOURCES
PARKS AND RECREATION DIVISION
STATE PARKS AND RECREATION AREAS

R 299.321

Source: 1982 AACS.

R 299.323

Source: 1982 AACS.

R 299.326

Source: 1994 AACS.

LANDS DIVISION

STATE LANDS OTHER THAN STATE PARKS AND RECREATION AREAS

R 299.331

Source: 1980 AACS.

Editor's note: This rule took effect 90 days after the department of natural resources certified to the commission of natural resources the completion of 1500 miles of designated forest trail on state forest lands. The certification occurred on October 5, 1989.

R 299.334

Source: 1980 AACS.

DEPARTMENT OF ENVIRONMENTAL QUALITY
GEOLOGICAL SURVEY DIVISION
OIL AND GAS OPERATIONS

R 299.501

Source: 1997 AACS.

R 299.502

Source: 1997 AACS.

R 299.503

Source: 1997 AACS.

R 299.504

Source: 1997 AACS.

R 299.505

Source: 1997 AACS.

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R 299.506
Source: 1997 AACCS.

R 299.507
Source: 1997 AACCS.

R 299.508
Source: 1997 AACCS.

R 299.509
Source: 1997 AACCS.

R 299.510
Source: 1997 AACCS.

R 299.511
Source: 1997 AACCS.

R 299.512
Source: 1997 AACCS.

R 299.513
Source: 1997 AACCS.

R 299.514
Source: 1997 AACCS.

R 299.515
Source: 1997 AACCS.

R 299.521
Source: 1997 AACCS.

R 299.522
Source: 1997 AACCS.

R 299.523
Source: 1997 AACCS.

R 299.531
Source: 1997 AACCS.

R 299.532
Source: 1997 AACCS.

R 299.533
Source: 1997 AACCS.

R 299.534
Source: 1997 AACCS.

R 299.535
Source: 1997 AACCS.

R 299.541
Source: 1997 AACCS.

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R 299.542
Source: 1997 AACS.

R 299.543
Source: 1997 AACS.

R 299.544
Source: 1997 AACS.

DEPARTMENT OF NATURAL RESOURCES
LAW ENFORCEMENT DIVISION
SHOOTING RANGES ON STATE-OWNED LANDS

R 299.671
Source: 1986 AACS.

R 299.672
Source: 1986 AACS.

R 299.673a
Source: 1986 AACS.

REGULATION OF LANDS

R 299.921
Source: 2004 AACS.

R 299.922
Source: 2004 AACS.

R 299.923
Source: 2002 AACS.

R 299.924
Source: 2002 AACS.

R 299.925
Source: 2002 AACS.

R 299.926
Source: 2002 AACS.

R 299.927
Source: 2002 AACS.

R 299.928
Source: 2002 AACS.

R 299.929
Source: 2002 AACS.

R 299.930
Source: 2002 AACS.

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R 299.931
Source: 2002 AACS.

R 299.932
Source: 2002 AACS.

R 299.933
Source: 2002 AACS.

WILDLIFE DIVISION
PUBLIC ACCESS STAMP PROGRAM

R 299.984
Source: 1980 AACS.

ROSE LAKE WILDLIFE RESEARCH AREA

R 299.1001
Source: 1986 AACS.

R 299.1002
Source: 1986 AACS.

R 299.1003
Source: 1986 AACS.

R 299.1004
Source: 1986 AACS.

WILDLIFE AND FISHERIES DIVISIONS
ENDANGERED AND THREATENED SPECIES

R 299.1021
Source: 1998-2000 AACS.

R 299.1022
Source: 1998-2000 AACS.

R 299.1023
Source: 1998-2000 AACS.

R 299.1024
Source: 1998-2000 AACS.

R 299.1025
Source: 1998-2000 AACS.

R 299.1026
Source: 1998-2000 AACS.

R 299.1027
Source: 2002 AACS.

R 299.1028

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Source: 1998-2000 AACS.

DEPARTMENT OF ENVIRONMENTAL QUALITY
GEOLOGICAL SURVEY DIVISION
OIL AND GAS OPERATIONS
PERMITS TO DRILL

R 299.1101
Source: 1997 AACS.

R 299.1102
Source: 1997 AACS.

R 299.1103
Source: 1997 AACS.

R 299.1104
Source: 1997 AACS.

R 299.1105
Source: 1997 AACS.

R 299.1105a
Source: 1997 AACS.

R 299.1106
Source: 1997 AACS.

R 299.1107
Source: 1997 AACS.

R 299.1108
Source: 1997 AACS.

R 299.1109
Source: 1997 AACS.

R 299.1110
Source: 1997 AACS.

R 299.1111
Source: 1997 AACS.

R 299.1112
Source: 1997 AACS.

LOCATION AND SPACING OF WELLS

R 299.1201
Source: 1997 AACS.

R 299.1202
Source: 1997 AACS.

R 299.1203

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Source: 1997 AACS.

R 299.1204

Source: 1997 AACS.

R 299.1205

Source: 1997 AACS.

R 299.1206

Source: 1997 AACS.

DRILLING

R 299.1301

Source: 1997 AACS.

R 299.1302

Source: 1997 AACS.

R 299.1303

Source: 1997 AACS.

R 299.1304

Source: 1997 AACS.

R 299.1305

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R 299.1306

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R 299.1307

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R 299.1308

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R 299.1309

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R 299.1310

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R 299.1311

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R 299.1312

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R 299.1313

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R 299.1314

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R 299.1315

Source: 1997 AACS.

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R 299.1316
Source: 1997 AACS.

R 299.1317
Source: 1997 AACS.

R 299.1318
Source: 1997 AACS.

R 299.1319
Source: 1997 AACS.

R 299.1320
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R 299.1321
Source: 1997 AACS.

R 299.1322
Source: 1997 AACS.

PRODUCTION

R 299.1401
Source: 1997 AACS.

R 299.1402
Source: 1997 AACS.

R 299.1403
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R 299.1404
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R 299.1405
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R 299.1406
Source: 1997 AACS.

R 299.1407
Source: 1997 AACS.

R 299.1408
Source: 1997 AACS.

R 299.1409
Source: 1997 AACS.

R 299.1410
Source: 1997 AACS.

PRORATION

R 299.1501
Source: 1997 AACS.

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R 299.1502
Source: 1997 AACS.

R 299.1503
Source: 1997 AACS.

R 299.1504
Source: 1997 AACS.

R 299.1505
Source: 1997 AACS.

R 299.1506
Source: 1997 AACS.

R 299.1507
Source: 1997 AACS.

R 299.1508
Source: 1997 AACS.

R 299.1509
Source: 1997 AACS.

R 299.1510
Source: 1997 AACS.

R 299.1511
Source: 1997 AACS.

R 299.1512
Source: 1997 AACS.

R 299.1513
Source: 1997 AACS.

R 299.1514
Source: 1997 AACS.

R 299.1515
Source: 1997 AACS.

R 299.1516
Source: 1997 AACS.

R 299.1517
Source: 1997 AACS.

BRINE DISPOSAL

R 299.1601
Source: 1997 AACS.

R 299.1602
Source: 1997 AACS.

R 299.1603
Source: 1997 AACS.

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R 299.1604
Source: 1997 AACS.

R 299.1605
Source: 1997 AACS.

R 299.1606
Source: 1997 AACS.

SECONDARY RECOVERY AND PRESSURE MAINTENANCE

R 299.1701
Source: 1997 AACS.

R 299.1702
Source: 1997 AACS.

R 299.1703
Source: 1997 AACS.

R 299.1704
Source: 1997 AACS.

PLUGGING

R 299.1801
Source: 1997 AACS.

R 299.1802
Source: 1997 AACS.

R 299.1803
Source: 1997 AACS.

R 299.1804
Source: 1997 AACS.

R 299.1805
Source: 1997 AACS.

R 299.1806
Source: 1997 AACS.

R 299.1807
Source: 1997 AACS.

R 299.1808
Source: 1997 AACS.

R 299.1809
Source: 1997 AACS.

R 299.1810
Source: 1997 AACS.

R 299.1811
Source: 1997 AACS.

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**PREVENTION OF FIRES AND POLLUTION AND DANGER
OR DESTRUCTION OF PROPERTY AND LIFE**

R 299.1901
Source: 1997 AACS.

R 299.1902
Source: 1997 AACS.

R 299.1903
Source: 1997 AACS.

R 299.1904
Source: 1997 AACS.

R 299.1905
Source: 1997 AACS.

R 299.1906
Source: 1997 AACS.

R 299.1907
Source: 1997 AACS.

R 299.1907a
Source: 1997 AACS.

R 299.1908
Source: 1997 AACS.

R 299.1909
Source: 1997 AACS.

R 299.1910
Source: 1997 AACS.

HYDROGEN SULFIDE MANAGEMENT

R 299.1911—R 299.1999
Source: 1997 AACS.

PUBLIC HEARING

R 299.2001
Source: 1997 AACS.

R 299.2002
Source: 1997 AACS.

R 299.2003
Source: 1997 AACS.

R 299.2004
Source: 1997 AACS.

R 299.2005
Source: 1997 AACS.

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R 299.2006
Source: 1997 AACS.

R 299.2007
Source: 1997 AACS.

R 299.2008
Source: 1997 AACS.

R 299.2009
Source: 1997 AACS.

R 299.2010
Source: 1997 AACS.

ENFORCEMENT

R 299.2101
Source: 1997 AACS.

PART 1. GENERAL PROVISIONS

R 299.2201
Source: 2004 AACS.

R 299.2205
Source: 2004 AACS.

R 299.2207
Source: 2004 AACS.

R 299.2211
Source: 2004 AACS.

R 299.2212
Source: 2004 AACS.

R 299.2213
Source: 2004 AACS.

R 299.2215
Source: 2004 AACS.

R 299.2216
Source: 2004 AACS.

R 299.2221
Source: 2004 AACS.

R 299.2222
Source: 2004 AACS.

R 299.2223
Source: 2004 AACS.

R 299.2225

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Source: 2004 AACs.

R 299.2227

Source: 2004 AACs.

R 299.2228

Source: 2004 AACs.

R 299.2229

Source: 2004 AACs.

R 299.2231

Source: 2004 AACs.

R 299.2235

Source: 2004 AACs.

R 299.2241

Source: 2004 AACs.

R 299.2242

Source: 2004 AACs.

R 299.2244

Source: 2004 AACs.

R 299.2246

Source: 2004 AACs.

R 299.2247

Source: 2004 AACs.

R 299.2248

Source: 2004 AACs.

R 299.2249

Source: 2004 AACs.

R 299.2251

Source: 2004 AACs.

R 299.2252

Source: 2004 AACs.

R 299.2253

Source: 2004 AACs.

R 299.2254

Source: 2004 AACs.

R 299.2255

Source: 2004 AACs.

R 299.2256

Source: 2004 AACs.

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R 299.2257
Source: 2004 AACCS.

R 299.2261
Source: 2004 AACCS.

R 299.2262
Source: 2004 AACCS.

R 299.2265
Source: 2004 AACCS.

R 299.2266
Source: 2004 AACCS.

R 299.2267
Source: 2004 AACCS.

R 299.2268
Source: 2004 AACCS.

R 299.2271
Source: 2004 AACCS.

R 299.2272
Source: 2004 AACCS.

R 299.2273
Source: 2004 AACCS.

R 299.2281
Source: 2004 AACCS.

R 299.2282
Source: 2004 AACCS.

R 299.2283
Source: 2004 AACCS.

R 299.2285
Source: 2004 AACCS.

R 299.2287
Source: 2004 AACCS.

R 299.2291
Source: 2004 AACCS.

R 299.2292
Source: 2004 AACCS.

R 299.2293
Source: 2004 AACCS.

R 299.2294
Source: 2004 AACCS.

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R 299.2295
Source: 2004 AACS.

R 299.2296
Source: 2004 AACS.

R 299.2297
Source: 2004 AACS.

R 299.2298
Source: 2004 AACS.

DEPARTMENT OF ENVIRONMENTAL QUALITY
GEOLOGICAL AND LAND MANAGEMENT DIVISION
MINERAL WELLS OPERATIONS
PART 1. GENERAL PROVISIONS

R 299.2301
Source: 2004 AACS.

R 299.2302
Source: 2004 AACS.

R 299.2303
Source: 2004 AACS.

R 299.2304
Source: 2004 AACS.

R 299.2305
Source: 2004 AACS.

R 299.2309
Source: 2004 AACS.

PART 2. PERMITS TO DRILL AND OPERATE

R 299.2311
Source: 2004 AACS.

R 299.2312
Source: 2004 AACS.

R 299.2313
Source: 2004 AACS.

R 299.2314
Source: 2004 AACS.

R 299.2315.
Source: 2004 AACS.

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R 299.2316
Source: 2004 AACCS.

R 299.2317
Source: 2004 AACCS.

R 299.2318
Source: 2004 AACCS.

R 299.2319
Source: 2004 AACCS.

R 299.2320
Source: 2004 AACCS.

R 299.2321
Source: 2004 AACCS.

R 299.2322
Source: 2004 AACCS.

R 299.2323
Source: 2004 AACCS.

R 299.2324
Source: 2004 AACCS.

R 299.2325
Source: 2004 AACCS.

R 299.2326
Source: 2004 AACCS.

R 299.2327
Source: 2004 AACCS.

R 299.2328
Source: 2004 AACCS.

R 299.2329
Source: 2004 AACCS.

R 299.2330
Source: 2004 AACCS.

R 299.2331
Source: 2004 AACCS.

R 299.2332
Source: 2004 AACCS.

R 299.2333
Source: 2004 AACCS.

R 299.2334

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Source: 2004 AACS.

R 299.2335

Source: 2004 AACS.

R 299.2336

Source: 2004 AACS.

R 299.2337

Source: 2004 AACS.

PART 3. LOCATION OF MINERAL WELLS

R 299.2341

Source: 2004 AACS.

PART 4. WELL DRILLING AND CONSTRUCTION

R 299.2351

Source: 2004 AACS.

R 299.2352

Source: 2004 AACS.

R 299.2353

Source: 2004 AACS.

R 299.2354

Source: 2004 AACS.

R 299.2355

Source: 2004 AACS.

R 299.2356

Source: 2004 AACS.

R 299.2357

Source: 2004 AACS.

R 299.2358

Source: 2004 AACS.

R 299.2359

Source: 2004 AACS.

R 299.2360

Source: 2004 AACS.

R 299.2361

Source: 2004 AACS.

R 299.2362

Source: 2004 AACS.

R 299.2363

Source: 2004 AACS.

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R 299.2364
Source: 2004 AACS.

R 299.2365
Source: 2004 AACS.

R 299.2366
Source: 2004 AACS.

R 299.2367
Source: 2004 AACS.

R 299.2368
Source: 2004 AACS.

R 299.2369
Source: 2004 AACS.

R 299.2370
Source: 2004 AACS.

R 299.2371
Source: 2004 AACS.

R 299.2372
Source: 2004 AACS.

PART 5. COMPLETION

R 299.2381
Source: 2004 AACS.

R 299.2382
Source: 2004 AACS.

R 299.2383
Source: 2004 AACS.

R 299.2384
Source: 2004 AACS.

R 299.2385
Source: 2004 AACS.

PART 6. MECHANICAL INTEGRITY TESTING

R 299.2391
Source: 2004 AACS.

R 299.2392
Source: 2004 AACS.

R 299.2393
Source: 2004 AACS.

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R 299.2394
Source: 2004 AACS.

R 299.2395
Source: 2004 AACS.

R 299.2396
Source: 2004 AACS.

R 299.2397
Source: 2004 AACS.

R 299.2398
Source: 2004 AACS.

R 299.2399
Source: 2004 AACS.

PART 7. OPERATION OF BRINE PRODUCTION AND SOLUTION MINING WELLS

R 299.2401
Source: 2004 AACS.

R 299.2402
Source: 2004 AACS.

R 299.2403
Source: 2004 AACS.

R 299.2404
Source: 2004 AACS.

R 299.2405
Source: 2004 AACS.

R 299.2406
Source: 2004 AACS.

R 299.2407
Source: 2004 AACS.

R 299.2408
Source: 2004 AACS.

PART 8. OPERATION OF DISPOSAL OR STORAGE WELLS

R 299.2411
Source: 2004 AACS.

R 299.2412
Source: 2004 AACS.

R 299.2413
Source: 2004 AACS.

R 299.2414

Annual Administrative Code Supplement
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Source: 2004 AACS.

R 299.2415

Source: 2004 AACS.

R 299.2416

Source: 2004 AACS.

PART 9. DISPOSITION OF BRINE

R 299.2421

Source: 2004 AACS.

R 299.2422

Source: 2004 AACS.

R 299.2423

Source: 2004 AACS.

R 299.2424

Source: 2004 AACS.

PART 10. PLUGGING

R 299.2431

Source: 2004 AACS.

R 299.2432

Source: 2004 AACS.

R 299.2433

Source: 2004 AACS.

R 299.2434

Source: 2004 AACS.

R 299.2435

Source: 2004 AACS.

R 299.2436

Source: 2004 AACS.

R 299.2437

Source: 2004 AACS.

R 299.2438

Source: 2004 AACS.

R 299.2439

Source: 2004 AACS.

PART 11. WELL SITES; SURFACE FACILITIES; FLOW LINES

R 299.2441

Source: 2004 AACS.

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R 299.2442
Source: 2004 AACCS.

R 299.2443
Source: 2004 AACCS.

R 299.2444
Source: 2004 AACCS.

R 299.2445
Source: 2004 AACCS.

R 299.2446
Source: 2004 AACCS.

R 299.2447
Source: 2004 AACCS.

R 299.2448
Source: 2004 AACCS.

R 299.2449
Source: 2004 AACCS.

R 299.2450
Source: 2004 AACCS.

R 299.2451
Source: 2004 AACCS.

R 299.2452
Source: 2004 AACCS.

R 299.2453
Source: 2004 AACCS.

R 299.2454
Source: 2004 AACCS.

R 299.2455
Source: 2004 AACCS.

R 299.2456
Source: 2004 AACCS.

R 299.2457
Source: 2004 AACCS.

R 299.2458
Source: 2004 AACCS.

R 299.2459
Source: 2004 AACCS.

R 299.2460
Source: 2004 AACCS.

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R 299.2461
Source: 2004 AACS.

R 299.2462
Source: 2004 AACS.

R 299.2463
Source: 2004 AACS.

PART 12. HYDROGEN SULFIDE MANAGEMENT

R 299.2471
Source: 2004 AACS.

R 299.2472
Source: 2004 AACS.

R 299.2473
Source: 2004 AACS.

R 299.2474
Source: 2004 AACS.

R 299.2475
Source: 2004 AACS.

R 299.2476
Source: 2004 AACS.

R 299.2477
Source: 2004 AACS.

R 299.2478
Source: 2004 AACS.

R 299.2479
Source: 2004 AACS.

R 299.2480
Source: 2004 AACS.

R 299.2481
Source: 2004 AACS.

R 299.2482
Source: 2004 AACS.

R 299.2483
Source: 2004 AACS.

R 299.2484
Source: 2004 AACS.

R 299.2485
Source: 2004 AACS.

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R 299.2486
Source: 2004 AACs.

R 299.2487
Source: 2004 AACs.

R 299.2488
Source: 2004 AACs.

R 299.2489
Source: 2004 AACs.

R 299.2490
Source: 2004 AACs.

R 299.2491
Source: 2004 AACs.

PART 13. HEARINGS

R 299.2501
Source: 2004 AACs.

R 299.2502
Source: 2004 AACs.

R 299.2503
Source: 2004 AACs.

R 299.2504
Source: 2004 AACs.

R 299.2505
Source: 2004 AACs.

R 299.2506
Source: 2004 AACs.

R 299.2507
Source: 2004 AACs.

R 299.2508
Source: 2004 AACs.

R 299.2509
Source: 2004 AACs.

R 299.2510
Source: 2004 AACs.

R 299.2511
Source: 2004 AACs.

R 299.2512
Source: 2004 AACs.

PART 14. ENFORCEMENT

R 299.2521
Source: 2004 AACS.

R 299.2522
Source: 2004 AACS.

R 299.2523
Source: 1997 AACS.

R 299.2524
Source: 1997 AACS.

R 299.2525
Source: 1997 AACS.

R 299.2526
Source: 1997 AACS.

R 299.2527
Source: 1997 AACS.

R 299.2528
Source: 1997 AACS.

R 299.2529
Source: 1997 AACS.

R 299.2530
Source: 1997 AACS.

PART 15. MINERAL WELL REGULATORY FEE

R 299.2531
Source: 2004 AACS.

R 299.2532
Source: 1997 AACS.

R 299.2533
Source: 1997 AACS.

FOREST MANAGEMENT DIVISION
COMMERCIAL FORESTS

R 299.2601
Source: 1987 AACS.

R 299.2602
Source: 1997 AACS.

R 299.2603
Source: 1987 AACS.

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R 299.2603a
Source: 1987 AACS.

R 299.2604
Source: 1987 AACS.

R 299.2605
Source: 1987 AACS.

R 299.2605a
Source: 1987 AACS.

R 299.2606
Source: 1987 AACS.

R 299.2607
Source: 1987 AACS.

R 299.2608
Source: 1987 AACS.

R 299.2609
Source: 1987 AACS.

R 299.2610
Source: 1987 AACS.

R 299.2611
Source: 1987 AACS.

FOREST AND MINERAL RESOURCE DEVELOPMENT FUND BOARD
FOREST AND MINERAL RESOURCE DEVELOPMENT FUND PROGRAM

R 299.2651
Source: 1991 AACS.

R 299.2652
Source: 1991 AACS.

R 299.2653
Source: 1991 AACS.

R 299.2654
Source: 1991 AACS.

R 299.2655
Source: 1991 AACS.

R 299.2656
Source: 1991 AACS.

R 299.2657
Source: 1991 AACS.

R 299.2658
Source: 1991 AACS.

R 299.2659

Annual Administrative Code Supplement
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Source: 1991 AACS.

R 299.2660

Source: 1991 AACS.

R 299.2661

Source: 1991 AACS.

R 299.2662

Source: 1991 AACS.

R 299.2663

Source: 1991 AACS.

R 299.2664

Source: 1991 AACS.

R 299.2665

Source: 1991 AACS.

R 299.2666

Source: 1991 AACS.

LAW ENFORCEMENT DIVISION

USE OF RIVERS

PART 1. GENERAL PROVISIONS

R 299.2701

Source: 1997 AACS.

R 299.2702

Source: 1997 AACS.

R 299.2703

Source: 1997 AACS.

R 299.2704

Source: 1997 AACS.

R 299.2705

Source: 1997 AACS.

R 299.2706

Source: 1997 AACS.

R 299.2707

Source: 1997 AACS.

R 299.2708

Source: 1997 AACS.

R 299.2709

Source: 1997 AACS.

R 299.2710

Source: 1997 AACS.

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R 299.2711
Source: 1997 AACS.

R 299.2712
Source: 1997 AACS.

R 299.2713
Source: 1997 AACS.

R 299.2714
Source: 1997 AACS.

R 299.2715
Source: 1997 AACS.

R 299.2716
Source: 1997 AACS.

R 299.2717
Source: 1997 AACS.

R 299.2718
Source: 1997 AACS.

R 299.2719
Source: 1997 AACS.

PART 2. AU SABLE, MANISTEE, PINE, AND PERE MARQUETTE RIVERS

R 299.2721
Source: 1997 AACS.

R 299.2722
Source: 1997 AACS.

R 299.2723
Source: 1997 AACS.

R 299.2724
Source: 1997 AACS.

R 299.2725
Source: 1997 AACS.

R 299.2726
Source: 1997 AACS.

R 299.2727
Source: 1997 AACS.

WILDLIFE DIVISION
PUBLIC EXHIBITIONS OF WILD ANIMALS AND BIRDS

PART 1. GENERAL PROVISIONS

R 299.2801

Annual Administrative Code Supplement
2005 Edition

Source: 1997 AACS.

R 299.2802

Source: 1997 AACS.

R 299.2803

Source: 1997 AACS.

R 299.2804

Source: 1997 AACS.

R 299.2805

Source: 1997 AACS.

Source: 1997 AACS.

R 299.2806

Source: 1997 AACS.

R 299.2807

Source: 1997 AACS.

R 299.2808

Source: 1997 AACS.

R 299.2809

Source: 1997 AACS.

PART 2. PERMITS

R 299.2811

Source: 1997 AACS.

R 299.2812

Source: 1997 AACS.

R 299.2813

Source: 1997 AACS.

R 299.2814

Source: 1997 AACS.

R 299.2815

Source: 1997 AACS.

R 299.2816

Source: 1997 AACS.

R 299.2817

Source: 1997 AACS.

R 299.2818

Source: 1997 AACS.

PART 3. PENS AND HOUSING

R 299.2821

Source: 1997 AACS.

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R 299.2822
Source: 1997 AACS.

R 299.2823
Source: 1997 AACS.

R 299.2824
Source: 1997 AACS.

R 299.2825
Source: 1997 AACS.

R 299.2826
Source: 1997 AACS.

R 299.2827
Source: 1997 AACS.

R 299.2828
Source: 1997 AACS.

R 299.2829
Source: 1997 AACS.

R 299.2830
Source: 1997 AACS.

R 299.2831
Source: 1997 AACS.

R 299.2832
Source: 1997 AACS.

R 299.2833
Source: 1997 AACS.

R 299.2834
Source: 1997 AACS.

R 299.2835
Source: 1997 AACS.

R 299.2836
Source: 1997 AACS.

R 299.2837
Source: 1997 AACS.

R 299.2838
Source: 1997 AACS.

R 299.2839
Source: 1997 AACS.

PART 4. PERMITTEES' OPERATIONS

R 299.2851
Source: 1997 AACS.

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R 299.2852
Source: 1997 AACS.

R 299.2853
Source: 1997 AACS.

R 299.2854
Source: 1997 AACS.

R 299.2855
Source: 1997 AACS.

R 299.2856
Source: 1997 AACS.

R 299.2857
Source: 1997 AACS.

R 299.2858
Source: 1997 AACS.

R 299.2859
Source: 1997 AACS.

R 299.2810
Source: 1997 AACS.

DEPARTMENT OF ENVIRONMENTAL QUALITY

ENVIRONMENTAL ASSISTANCE DIVISION

GENERAL RULES

PART 1. GENERAL PROVISIONS

R 299.2903
Source: 2003 AACS.

R 299.2905
Source: 2003 AACS.

PART 2. TREATMENT FACILITY CLASSIFICATIONS AND OPERATOR CERTIFICATION

R 299.2911
Source: 2003 AACS.

R 299.2912.
Source: 2003 AACS.

R 299.2916.
Source: 2003 AACS.

R 299.2917
Source: 2003 AACS.

R 299.2918
Source: 2003 AACS.

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R299.2920
Source: 2003 AACS.

R 299.2922
Source: 2003 AACS.

R 299.2923
Source: 2003 AACS.

R 299.2924
Source: 2003 AACS.

R 299.2925
Source: 2003 AACS.

R 299.2925a
Source: 2003 AACS.

R 299.2926
Source: 2003 AACS.

R 299.2927
Source: 2003 AACS.

PART 4. OPERATION AND MAINTENANCE OF SEWERAGE SYSTEMS

R 299.2959
Source: 1998-2000 AACS.

PART 5. HEARINGS

R 299.2971
Source: 1998-2000 AACS.

R 299.2972
Source: 1998-2000 AACS.

R 299.2973
Source: 1998-2000 AACS.

R 299.2974
Source: 1998-2000 AACS.

NATURAL RESOURCES COMMISSION

DEPARTMENT ORGANIZATION AND GENERAL FUNCTIONS

PART 1. NATURAL RESOURCES COMMISSION

R 299.3003
Source: 1997 AACS.

R 299.3006
Source: 1997 AACS.

PART 2. NATURAL RESOURCES DEPARTMENT

Annual Administrative Code Supplement
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R 299.3006a
Source: 1989 AACS.

R 299.3007
Source: 1997 AACS.

R 299.3008
Source: 1997 AACS.

R 299.3009
Source: 1997 AACS.

R 299.3010
Source: 1997 AACS.

R 299.3011
Source: 1997 AACS.

R 299.3012
Source: 1997 AACS.

R 299.3013
Source: 1997 AACS.

R 299.3014
Source: 1997 AACS.

R 299.3015
Source: 1997 AACS.

R 299.3016
Source: 1997 AACS.

R 299.3017
Source: 1997 AACS.

R 299.3018
Source: 1997 AACS.

R 299.3019
Source: 1997 AACS.

R 299.3020
Source: 1997 AACS.

R 299.3021
Source: 1997 AACS.

R 299.3022
Source: 1997 AACS.

R 299.3023
Source: 1997 AACS.

R 299.3024
Source: 1997 AACS.

R 299.3025
Source: 1997 AACS.

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R 299.3026
Source: 1997 AACS.

R 299.3027
Source: 1997 AACS.

R 299.3028
Source: 1997 AACS.

R 299.3029
Source: 1997 AACS.

R 299.3030
Source: 1997 AACS.

R 299.3031
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R 299.3032
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R 299.3033
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R 299.3034
Source: 1997 AACS.

R 299.3035
Source: 1997 AACS.

R 299.3036
Source: 1997 AACS.

R 299.3037
Source: 1997 AACS.

R 299.3038
Source: 1997 AACS.

R 299.3039
Source: 1997 AACS.

LANDS DIVISION
METALLIC MINERALS LEASES ON STATE LANDS

R 299.4001
Source: 1984 AACS.

R 299.4002
Source: 1984 AACS.

R 299.4003
Source: 1984 AACS.

R 299.4004
Source: 1984 AACS.

Annual Administrative Code Supplement
2005 Edition

R 299.4005
Source: 1984 AACS.

R 299.4006
Source: 1984 AACS.

R 299.4007
Source: 1984 AACS.

NONMETALLIC MINERALS LEASES ON STATE LANDS

R 299.4021
Source: 1987 AACS.

R 299.4022
Source: 1987 AACS.

R 299.4023
Source: 1987 AACS.

R 299.4024
Source: 1987 AACS.

R 299.4025
Source: 1987 AACS.

R 299.4026
Source: 1987 AACS.

R 299.4027
Source: 1987 AACS.

REAL ESTATE DIVISION

UNDERGROUND GAS STORAGE LEASES ON STATE LANDS

R 299.4051
Source: 1990 AACS.

R 299.4052
Source: 1990 AACS.

R 299.4053
Source: 1990 AACS.

R 299.4054
Source: 1990 AACS.

R 299.4055
Source: 1990 AACS.

DEPARTMENT OF ENVIRONMENTAL QUALITY
WASTE MANAGEMENT DIVISION
SOLID WASTE MANAGEMENT

PART 1. GENERAL PROVISIONS

R 299.4101

Source: 1998-2000 AACs.

R 299.4102 Definitions; C to E.

Rule 102. As used in these rules:

- (a) "Cement kiln dust" means particulate material that is collected in air emission control devices which serve portland cement kilns.
- (b) "Closed unit" means a landfill unit at which final closure has been completed and certified in accordance with R 299.4317 or R 299.4449.
- (c) "Commercial waste" means all types of solid waste generated by stores, offices, restaurants, warehouses, and other nonmanufacturing activities, but does not include household waste from single residences, hazardous waste, and industrial wastes. Commercial waste includes solid waste from any of the following:
 - (i) Multiple residences.
 - (ii) Hotels and motels.
 - (iii) Bunkhouses.
 - (iv) Ranger stations.
 - (v) Crew quarters.
 - (vi) Campgrounds.
 - (vii) Picnic grounds.
 - (viii) Day-use recreation areas.
- (d) "Composite liner" means a system that consists of both of the following components:
 - (i) An upper component that consists of a flexible membrane liner which is installed in direct and uniform contact with the lower compacted soil component. The flexible membrane liner shall have a nominal thickness not less than 30 mils thick. For high-density polyethylene components, the flexible membrane shall have a nominal thickness not less than 60 mils.
 - (ii) A lower component that consists of any of the following soil layers:
 - (A) Compacted soil which is not less than 2 feet thick and which is in compliance with R 299.4913.
 - (B) A bentonite geocomposite liner that is in compliance with R 299.4914.
 - (C) An alternative soil layer that is approved under these rules.
- (e) "Composting" means the process by which biological decomposition of yard clippings or compostable material is carried out under controlled aerobic conditions and which stabilizes the organic fraction into a material that can easily and safely be stored, handled, and used in an environmentally acceptable manner. The presence of insignificant anaerobic zones within the composting material will not cause the process to be classified as other than composting.
- (f) "Composting facility" means a facility where composting of yard clippings or compostable material occurs using composting technology. Composting technology may include physical turning, windrowing, aeration, or other mechanical handling of organic matter.
- (g) "Construction and demolition waste" means waste building materials, packaging, and rubble that results from construction, remodeling, repair, and demolition operations on houses, commercial or industrial buildings, and other structures. Construction and demolition waste includes trees and stumps which are more than 4 feet in length and 2 inches in diameter and which are removed from property during construction, maintenance, or repair. Construction and demolition waste does not include any of the following, even if it results from the construction, remodeling, repair, and demolition of structures:
 - (i) Asbestos waste.
 - (ii) Household waste.
 - (iii) Corrugated containerboard.
 - (iv) Appliances.
 - (v) Drums and containers.
 - (vi) Any aboveground or underground tank and associated piping, except septic tanks.
 - (vii) Solid waste that results from any processing technique which renders individual waste components unrecognizable, such as pulverizing or shredding, unless the type and origin of such waste is known not to contain the wastes listed in paragraphs (i) to (vi) of this subdivision.
- (h) "Contiguous property" means the same or geographically contiguous property that may be divided by a public or private right-of-way. Pieces of property owned by the same person and connected by a right-of-way which the owner controls and to which the public does not have access are also contiguous.
- (i) "Designated planning agency" means a governmental unit or regional planning agency that is determined, under the act, to

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be responsible for the preparation of a solid waste management plan.

(j) "Disease vectors" means any rodents, flies, mosquitoes, or other animals, including insects, that are capable of transmitting disease to humans.

(k) "Disposal" means any of the following:

(i) The discharge, deposit, injection, dumping, spilling, leaking, or placing of any solid waste into or on any land or water so that the solid waste or any constituent thereof may enter the environment or be emitted into the air or discharged into any waters, including groundwaters. Disposal includes the placement of solid waste in an open dump, landfill, or waste piles that are not exempt under R 299.4129(2) or R 299.4130.

(ii) The open burning or incineration of solid waste.

(iii) The processing of solid waste.

(iv) The storage or handling of solid waste at a solid waste transfer facility.

(v) The abandonment of solid waste in place of other disposal.

(l) "Disposal area type" means 1 of the following types of disposal areas defined by the act and these rules:

(i) Municipal solid waste landfill.

(ii) Industrial waste landfill.

(iii) Construction and demolition waste landfill.

(iv) Municipal incinerator ash landfill.

(v) Incinerator.

(vi) Processing plant.

(vii) Transfer facility.

(viii) Waste pile.

(m) "Domestic well" means a well that is intended to furnish water to a single household for any beneficial use.

(n) "Enforceable mechanism" means a legal method whereby the state, a county or municipal government, or a person can take action to guarantee compliance with an approved county solid waste management plan. Enforceable mechanisms include any of the following:

(i) Contracts.

(ii) Intergovernmental agreements.

(iii) Laws.

(iv) Ordinances.

(v) Rules.

(vi) Regulations.

(o) "Environmental contamination" means the release of a hazardous substance in a quantity that is or may become injurious to the environment or to the public health, safety, or welfare.

(p) "Environmental interest group" means a nonprofit citizens' organization that has bylaws which support environmental enhancement or the conservation of Michigan's natural resources and that has an organization which does not directly reflect an economic interest of its members.

(q) "Existing disposal area" means any of the following:

(i) A disposal area that has been issued a construction permit under the act.

(ii) A disposal area that had engineering plans approved by the director before January 11, 1979.

(iii) An industrial waste landfill that was authorized to operate by the director or by court order before October 9, 1993.

(iv) An industrial waste pile that is located at the site of generation on

October 9, 1993.

(r) "Existing unit" or "existing landfill unit" means any landfill unit that receives solid waste as of October 9, 1993. Waste placement in existing landfill units shall be consistent with past operating practices or modified practices to ensure good management.

History: 1979 ACS 9, Eff. Jan. 6, 1982; 1993 MR 9, Eff. Oct. 8, 1993; 1999 MR 3, Eff. Apr. 12, 1999; 2005 MR 19, Eff. Oct 20, 2005.

R 299.4103

Source: 1998-2000 AACS.

R 299.4104

Source: 1998-2000 AACS.

R 299.4105 Definitions; S to W.

Rule 105. As used in these rules:

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- (a) "Sanitary landfill" means a type of disposal area consisting of 1 or more landfill units and the active work areas associated with these units. Sanitary landfills shall be classified as 1 of the following types of landfills:
- (i) A type II landfill, which is a municipal solid waste landfill and includes a municipal solid waste incinerator ash landfill.
 - (ii) A type III landfill, which is any landfill that is not a municipal solid waste landfill or hazardous waste landfill and includes all of the following:
 - (A) Construction and demolition waste landfills.
 - (B) Industrial waste landfills.
 - (C) Landfills which accept waste other than household waste, municipal solid waste incinerator ash, or hazardous waste from conditionally exempt small quantity generators.
- (b) "Saturated zone" or "zone of saturation" means that part of the earth's crust in which all voids are filled with water.
- (c) "Scavenging" means the uncontrolled picking of materials from solid waste.
- (d) "Secondary collection system" means the liquid collection and removal system between the liners of a multiple liner system in a landfill cell. In the case of an unmonitorable unit, the secondary collection system is also a leak detection system.
- (e) "Sludge" means any solid or semisolid waste that is generated from a municipal, commercial, or industrial wastewater treatment plant, water supply treatment plant, or air pollution control facility. "Sludge" also includes any other semisolid industrial waste.
- (f) "Specific site" means an area within a municipality or municipalities.
- (g) "Sole-source aquifer" means those aquifers that are designated under section 1424(e) of the federal safe drinking water act of 1974, Public Law 93-523, 42 U.S.C. §300h et seq.
- (h) "Solid waste boundary" means the outermost perimeter of the solid waste (projected in the horizontal plane) as it would exist at completion of the sanitary landfill and as authorized in a construction permit or in engineering plans approved for the landfill unit by the solid waste control agency before January 11, 1979.
- (i) "Solid waste control agency" means the certified health department that has jurisdiction in the county or, in the absence of a certified health department, the department.
- (j) "Solid waste management industry" means any of the following:
- (i) An individual or organization that derives a substantial portion of its income from the collection, transportation, or disposal of solid waste.
 - (ii) A manufacturing industry that collects, transports, and disposes of solid waste that is generated incidental to its operation.
 - (iii) A unit of government or subdivision thereof that collects, transports, or disposes of solid waste within its political boundary when 4 members, as defined in paragraphs (i) and (ii) of this subdivision, cannot be found.
- (k) "Solid waste management system" means a set of procedures that provides for the collection, transportation, separation, recycling, recovery, and disposal of solid waste.
- (l) "Speculative accumulation" means the storage of material intended for recycling or reuse at a site for a period of over 1 year, or for low-hazard industrial waste accumulated at the site of generation, a period of 3 years. A material is not accumulated speculatively, however, if the person who accumulates it can show that the material can be recycled into marketable raw materials or new products and that, during the period, the amount of material that is recycled or that is transferred to a different site for recycling equals not less than 75%, by weight or volume, of the amount of material that was accumulated at the beginning of the period.
- (m) "Standard industrial classification number" means the number assigned to an industry by the United States office of management and budget and contained in the standard industrial classification manual. The manual is adopted by reference in R 299.4126.
- (n) "Statistically significant increase" means a verified increase in groundwater concentration for a given constituent for which statistical analysis is required in the approved hydrogeological monitoring plan that is inconsistent with background concentrations given chance expectations for the site as a whole.
- (o) "Sump" means any lined pit, manhole, or reservoir that serves to collect liquids drained from a leachate collection and removal system, secondary collection system, or leak detection system.
- (p) "Surface water" means a body of water that has its top surface exposed to the atmosphere and includes a flowing body, a pond, or a lake, except for drainageways and ponds that are used solely for wastewater conveyance, treatment, or control.
- (q) "Synthetic liner" or "flexible membrane liner" means very low-permeability synthetic membrane liners or barriers that are used with any geotechnical engineering-related material as an integral part of a man-made project, structure, or system.
- (r) "Total inorganic nitrogen" means the sum of ammonia-nitrogen, nitrate-nitrogen, and nitrite-nitrogen.
- (s) "TSCA" means the toxic substances control act, 15 U.S.C. §2601 et seq.
- (t) "Unmonitorable unit" means a landfill unit that is not a monitorable unit.
- (u) "Uppermost aquifer" means the geologic formation which is nearest to the natural ground surface and which is an aquifer and includes lower aquifers that are hydraulically interconnected with this aquifer within the facility's property boundary.
- (v) "Vertical expansion" means the landfilling of solid waste above the elevations indicated in the construction permit or in

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engineering plans approved for the landfill unit by the solid waste control agency before January 11, 1979. Increases in elevation approved by the director are not new disposal areas if the volume of waste to be disposed of is not expanded beyond the volume previously approved and if the expansion is in compliance with the act and these rules.

(w) "Wetland" means the areas defined as wetlands in part 303 of the act.

History: 1979 ACS 9, Eff. Jan. 6, 1982; 1993 MR 9, Eff. Oct. 8, 1993; 1999 MR 3, Eff. Apr. 12, 1999; 2005 MR 19, Eff. Oct 20, 2005.

R 299.4106

Source: 1982 AACS.

R 299.4106a

Source: 1998-2000 AACS.

R 299.4107

Source: 1998-2000 AACS.

R 299.4108

Source: 1998-2000 AACS.

R 299.4109

Source: 1982 AACS.

R 299.4110

Source: 1998-2000 AACS.

R 299.4111

Source: 1998-2000 AACS.

R 299.4112

Source: 1993 AACS.

R 299.4113

Source: 1998-2000 AACS.

R 299.4114

Source: 1998-2000 AACS.

R 299.4115

Source: 1993 AACS.

R 299.4116

Source: 1993 AACS.

R 299.4117

Source: 1993 AACS.

R 299.4118

Source: 1998-2000 AACS.

R 299.4119

Source: 1998-2000 AACS.

R 299.4120

Source: 1998-2000 AACS.

R 299.4121

Source: 1993 AACS.

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- R 299.4122**
Source: 1993 AACS.
- R 299.4123**
Source: 1993 AACS.
- R 299.4124**
Source: 1993 AACS.
- R 299.4125**
Source: 1993 AACS.
- R 299.4126**
Source: 1993 AACS.
- R 299.4127**
Source: 1993 AACS.
- R 299.4128**
Source: 1998-2000 AACS.
- R 299.4129**
Source: 1998-2000 AACS.
- R 299.4130**
Source: 1993 AACS.
- R 299.4131**
Source: 1998-2000 AACS.
- R 299.4132**
Source: 1998-2000 AACS.
- R 299.4133**
Source: 1998-2000 AACS.
- R 299.4134**
Source: 1998-2000 AACS.
- R 299.4135**
Source: 1998-2000 AACS.
- R 299.4136**
Source: 1998-2000 AACS.
- R 299.4137**
Source: 1998-2000 AACS.
- R 299.4138**
Source: 1993 AACS.
- R 299.4139**
Source: 1998-2000 AACS.
- R 299.4140**
Source: 1998-2000 AACS.
- R 299.4141**
Source: 1998-2000 AACS.

PART 2. CERTIFICATION OF LOCAL HEALTH DEPARTMENTS

R 299.4201

Source: 1993 AACS.

R 299.4202

Source: 1982 AACS.

R 299.4203

Source: 1998-2000 AACS.

R 299.4204

Source: 1982 AACS.

R 299.4205

Source: 1982 AACS.

R 299.4206

Source: 1982 AACS.

PART 3. TYPE III LANDFILLS

R 299.4301

Source: 1998-2000 AACS.

R 299.4302

Source: 1998-2000 AACS.

R 299.4303

Source: 1993 AACS.

R 299.4304

Source: 1998-2000 AACS.

R 299.4305

Source: 1998-2000 AACS.

R 299.4306

Source: 1998-2000 AACS.

R 299.4307 Type III landfills; design standards; natural soil sites; lined sites.

Rule 307. (1) The design standards of this rule apply to both of the following:

(a) New disposal areas for industrial waste.

(b) New units and lateral extensions of existing units at a construction and demolition waste landfill.

(2) Except as required by subrules (5) and (6) of this rule, a type III landfill shall be located and designed with either of the following:

(a) A liner that is in compliance with subrule (4) of this rule.

(b) A natural soil barrier that is in compliance with subrule (3)(a) of this rule.

(c) For low-hazard industrial waste, a means of otherwise preventing groundwater contamination, as provided by subrule 3(b) of this rule.

(3) The following provisions apply with respect to natural soil sites for type III landfills:

(a) A natural soil barrier shall have a maximum demonstrated hydraulic conductivity of 1.0×10^{-7} cm/sec and shall meet the criteria specified in R 299.4912. The director may approve a combination of natural soils with a maximum demonstrated hydraulic conductivity of 1.0×10^{-6} cm/sec having a thickness that provides equivalent protection to 10 feet of

1.0×10^{-7} cm/sec soil. Type III natural clay sites where the clay does not extend to the surface shall include side cutoff walls or other barriers and controls to impede the lateral infiltration of water into the fill and to impede lateral flow of leachate out of the fill interior.

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(b) Applications for low-hazard industrial waste landfills at natural soil sites that do not meet the permeability or soil classifications of subdivision (a) of this subrule shall be considered based on the hydrogeologic characteristics of the site, including the permeability and thickness of the soils, the ability of the soils to attenuate leachate, groundwater level, and other factors particular to a specific site. In addition, all of the following requirements apply:

(i) The applicant shall characterize the waste in accordance with R 299.4118 and shall retest the waste annually, or on a more frequent schedule, as specified by the solid waste control agency if the character of the waste is variable.

(ii) In the application, an applicant shall explain the rationale for the design using calculations, if applicable, and professional analyses to show how the proposed design is expected to be in compliance with the performance standards specified in R 299.4306.

(iii) Two thousand feet of horizontal isolation shall exist in the direction of groundwater flow measured from the solid waste boundary to public water supply wells and domestic wells in existence at the time of an advisory analysis.

(iv) One thousand feet of horizontal isolation shall exist in directions lateral to or upgradient of the direction of groundwater flow measured from the solid waste boundary to public water supply wells and off-site domestic wells in existence at the time of advisory analysis.

(v) Based on the hydrogeological evaluation, the director may approve a decrease in the isolation distances specified in paragraphs (ii) to (iv) of this subdivision.

(vi) An applicant shall demonstrate, by technical calculations, considering the design details and operational procedures specific to the site, how run-off from those portions of the landfill that contain solid waste will be managed to comply with R 299.4306.

(4) All of the following may be used as a liner system for type III landfills:

(a) A compacted soil liner which has a minimum thickness of 3 feet and which is in compliance with the specifications of R 299.4913.

(b) A composite liner.

(c) A flexible membrane liner which is in compliance with the specifications of R 299.4915 and which is not less than 30 mils thick, if the liner is installed on stable soil not less than 4 feet

thick and which has a hydraulic conductivity that is less than 1.0×10^{-5} cm/sec.

(d) Other liner materials, modified soils, or technologically advanced liner systems, based on data supplied by the applicant regarding the system's durability, permeability, resistance to sunlight and chemicals, and performance in similar applications. The director shall determine the acceptability of the data and proposed design.

(5) New disposal areas for industrial solid waste that do not meet the criteria for low-hazard industrial solid waste contained in R 299.4122 shall, at a minimum, contain a composite liner.

(6) A new unit or a lateral extension of an existing unit at a type III landfill that is an unmonitored unit shall not be licensed unless the unit contains a leak detection system that is monitored in accordance with the approved hydrogeological monitoring plan. The owner or operator of an unmonitored unit who installs a leak detection system to monitor the unit shall include in the hydrogeological monitoring plan provisions for monitoring the leak detection system in accordance with R 299.4437.

History: 1979 ACS 9, Eff. Jan. 6, 1982; 1993 MR 9, Eff. Oct. 8, 1993; 1999 MR 3, Eff. Apr. 12, 1999; 2005 MR 19, Eff. Oct 20, 2005.

R 299.4308

Source: 1998-2000 AACS.

R 299.4309

Source: 1998-2000 AACS.

R 299.4310

Source: 1998-2000 AACS.

R 299.4311

Source: 1998-2000 AACS.

R 299.4312

Source: 1997 AACS.

R 299.4313

Source: 1993 AACS.

R 299.4314

Source: 1997 AACS.

R 299.4315 Type III landfill operating requirements; equipment; supervision; access; unloading of solid waste; control of dust and blowing papers; spreading and compaction; cell volume; hazardous waste, liquids, or sewage; burning; on-site roads; salvaging; insects and rodents; sloping, grading, and drainage; noise levels; monitor well sampling; leachate removal and disposal.

Rule 315. (1) Properly maintained equipment of adequate number, type, and size shall be used in operating a type III landfill pursuant to established engineering practice and these rules. Backup equipment shall be available on the site or suitable arrangements shall be made to provide for such equipment from other sources during equipment breakdown or during peak loads.

(2) A type III landfill operation shall be under the immediate direction of a responsible individual.

(3) Access to a type III landfill shall be limited to those times when an attendant is on duty or when an alternative monitoring device is in use and shall be limited to those persons who are authorized to use the site for the disposal of solid waste. Access to the site shall be controlled by a suitable barrier.

(4) The unloading of solid waste shall be continuously supervised.

(5) Measures shall be provided to control fugitive dust, odors, and other emissions at a type III landfill. These measures shall be sufficient to ensure that the operation of the landfill will not produce any emission that results in a violation of part 55 of the act.

(6) Solid waste at a construction and demolition waste landfill shall be spread so that it can be compacted in layers that are not more than 2 feet deep. Large and bulky items, when not excluded from the site, shall be disposed of in a manner that is approved by the solid waste control agency.

(7) The owner or operator of a type III landfill shall record the quantity of waste that is disposed of in tons or cubic yards. Records of waste disposal shall be used to calculate deposits into the perpetual care fund that are required by section 11525 of the act.

(8) The following wastes shall not be disposed of in a type III landfill:

(a) Materials that would adversely affect the liner.

(b) Household waste.

(c) Hazardous waste, as defined in R 299.9203.

(d) Liquid waste, except for industrial sludges and leachate recirculated under R 299.4308(2).

(9) The burning of trees, stumps, and brush at a type III landfill shall be severely restricted and shall be conducted only in designated areas with the permission of the solid waste control agency and other appropriate authorities. Suitable measures shall be available to extinguish accidental fires.

(10) On-site roads shall be designed and constructed so that traffic flows smoothly and is not interrupted by ordinary inclement weather.

(11) Salvaging at a construction and demolition waste landfill, if allowed by the licensee, shall be organized so that it does not interfere with the prompt sanitary disposal of solid waste or create unsightliness or health hazards. Scavenging is not permitted. White goods and other recyclable metals may be stored for eventual recycling on the site of a construction and demolition waste landfill in a separate area away from the active work area if a nuisance or health hazard does not develop. The period of storage shall not be longer than a period of time that constitutes speculative accumulation.

(12) Conditions unfavorable to the propagation of insects and rodents shall be maintained at a construction and demolition waste landfill by carrying out routine landfill operations promptly and systematically. Supplemental insect and rodent control measures shall be instituted when necessary.

(13) The entire site, including the fill surface, shall be sloped, graded, and provided with drainage facilities to accomplish all of the following purposes:

(a) Minimize run-off onto and into the fill.

(b) Prevent erosion or washing of the fill.

(c) Drain off rainwater falling on the fill.

(d) Prevent the collection of standing water.

(14) Landfill operations shall be conducted in a manner that will not exceed the noise levels specified in R 299.4305(5). The solid waste control agency shall monitor noise levels using weighted decibel measurements, referenced to 20 micropascals, with a type of audio output meter approved by the United States bureau of standards.

(15) A licensee shall have the monitoring wells sampled and analyzed at least quarterly during the landfill's operation. Following the closure of the landfill, semiannual sampling and reporting are required during the 30-year postclosure period. Sampling, preservation, and analysis procedures shall be approved by the department. Analyses shall be submitted to the department within 30 days of the end of the calendar quarter, in a form and format specified by the department.

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(16) A licensee shall remove leachate from a leachate collection sump as frequently as necessary to maintain less than 1 foot of liquid in the leachate collection and removal system and shall check the leachate collection sump at least monthly to assure compliance with this requirement.

(17) The collected leachate shall be disposed of in a manner that does not damage the environment. Disposal options may include conveying the leachate to a publicly owned treatment works upon written approval of the municipality that operates the treatment works or other facility permitted under part 31 of the act. This rule does not preclude the need for any other authorization that is required for the leachate disposal method selected.

History: 1979 ACS 9, Eff. Jan. 6, 1982; 1993 MR 9, Eff. Oct. 8, 1993; 1999 MR 3, Eff. Apr. 12, 1999; 2005 MR 19, Eff. Oct 20, 2005.

R 299.4316

Source: 1993 AACS.

R 299.4317

Source: 1998-2000 AACS.

R 299.4318 Type III landfill operating requirements; groundwater monitoring.

Rule 318. (1) The requirements of this rule apply to all type III landfill units, except as provided in subrule (2) of this rule.

(2) The director shall reduce or waive certain groundwater monitoring requirements of this rule if the owner or operator can demonstrate compliance with either of the following provisions:

(a) That there is no potential for migration of hazardous constituents from that type III unit to the uppermost aquifer during the active life of the unit and the 30-year post-closure care period. The demonstration shall be certified by a qualified groundwater scientist and approved by the director and shall be based upon both of the following:

(i) Site-specific field collected measurements, sampling, and analysis of physical, chemical, and biological processes that affect contaminant fate and transport.

(ii) Contaminant fate and transport predictions that maximize contaminant migration and consider impacts on human health and the environment.

(b) That a discharge to the uppermost aquifer will occur, but that such discharge is authorized and monitored under a permit issued pursuant to the provisions of part 31 of the act.

(3) Owners and operators of type III landfill units shall comply with the groundwater monitoring requirements of this rule before waste can be placed in the unit.

(4) Once established at a type III landfill unit, groundwater monitoring shall be conducted throughout the active life and 30-year post-closure care period of that unit.

(5) Groundwater monitoring is required at type III landfill units at all groundwater-monitoring wells defined pursuant to the provisions of R 299.4906. At a minimum, a groundwater monitoring program for a type III landfill shall include monitoring for the following constituents:

(a) The primary inorganic indicators that are listed in the provisions of R 299.4450 or alternate indicators listed in the provisions of R 299.4451 quarterly during the active life of the facility and semiannually during the 30-year post-closure period, except as provided for in subrule (7).

(b) The constituents that are listed in the provisions of R 299.4452, R 299.4453, and R 299.4454, annually during the active life of the facility and the 30-year post-closure period, except as provided in subrule (6) of this rule.

(c) Other constituents required by a construction permit or approved hydrogeologic monitoring plan.

(6) The director shall delete any of the monitoring parameters specified in subrule (5) of this rule for a type III landfill unit if it can be shown that the removed constituents are not reasonably expected to be in or derived from the waste that is contained in the unit in significant concentrations. An owner or operator may demonstrate that a constituent is not expected to be in or derived from the waste in significant concentrations if 1 of the following conditions exists based on all available historical waste characterizations pursuant to the provisions of R 299.4118 or the historical analysis of leachate from not less than 2 samplings:

(a) The constituent and any breakdown products are not and have not been detected at practical quantitation limits approved by the director.

(b) The concentration of the constituent is below the background concentration of the constituent in groundwater.

(c) The concentration of the constituent is below the part 201 generic residential criteria contained in R 299.5744 and R 299.5746, and other constituents will serve as better indicators of leakage from the landfill unit.

(7) The owner and operator of a type III landfill may apply to the director for an appropriate alternative frequency for repeated sampling and analysis for constituents that are specified in subrule (5) of this rule during the active life, including closure, and the 30 year post-closure care period. The alternative frequency during the active life, including closure, shall be

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not less than semiannually. The alternative frequency shall be based on consideration of all of the following factors:

- (a) Lithology of the aquifer and unsaturated zone.
 - (b) Hydraulic conductivity of the aquifer and unsaturated zone.
 - (c) Groundwater flow rates.
 - (d) Minimum distance of travel between waste and the closest downgradient monitoring well screen.
 - (e) The presence of an alternate monitoring system, such as a secondary collection system.
 - (8) A minimum of 4 independent samples from each background and downgradient well shall be collected and analyzed during the first sampling event. An alternate background collection schedule may be approved by the department. At least 1 sample from each background and downgradient well shall be collected and analyzed during subsequent sampling events.
 - (9) If the owner or operator determine, pursuant to a statistical test specified in R 299.4908, that there is a statistically significant increase over background for 1 or more of the constituents or indicators listed in subrule (5) of this rule at any monitoring well at or within the solid waste boundary, or at other monitoring locations required by the director, then the owner and operator shall do all of the following:
 - (a) Within 14 days of the determination, place a notice in the facility's files that indicates which constituents have shown statistically significant increases from background levels and notify the director.
 - (b) Within 30 days of the determination, the owner and operator may demonstrate to the director that a source other than a landfill unit or other source at the facility caused the contamination, that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality, or that the increase is authorized by a permit that is issued pursuant to the provisions of part 31 of the act. A report that documents this demonstration shall be certified by a qualified groundwater scientist, be submitted to the director within 30 days of the determination and be placed in the facility's files. If the director notifies the owner or operator that a successful demonstration has not been made, then within 15 days of the notification by the director the owner and operator shall submit a response action plan to the director as required in R 299.4319. If a successful demonstration is made and documented, the owner or operator shall do the following:
 - (i) Continue detection monitoring as specified in this rule.
 - (ii) Determine whether the presence of hazardous constituents in groundwater renders any new units or lateral extensions within the solid waste boundary unmonitorable. If so, the owner and operator shall develop a schedule for submitting revised engineering plans for such lateral extensions or new units that include a leak detection system. The owner or operator of an unmonitorable unit who installs a leak detection system to monitor the unit shall include in the hydrogeological monitoring plan provisions for monitoring the leak detection system in accordance with R 299.4437.
- History: 1993 MR 9, Eff. Oct. 8, 1993; 2005 MR 19, Eff. Oct. 20, 2005.

R 299.4319 Type III landfill operation; response action plan.

Rule 319. (1) The owner and operator of a type III landfill unit that is required to prepare a response action plan shall do all of the following:

- (a) Identify possible sources of groundwater contamination.
- (b) Identify interim response activities taken or to be taken to control possible sources of contamination.
- (c) For a unit that the owner or operator determines is a probable source of contamination, develop and submit a schedule for terminating waste receipt, initiating closure, and redesigning and constructing new units to include a leak detection system or other means of monitoring the unit. If appropriate, the schedule shall be based on all of the following factors:
 - (i) The concentration of hazardous substances.
 - (ii) The rate of migration.
 - (iii) Risks to human health and the environment, including the proximity of drinking water supplies.
 - (iv) The practicality of initiating closure.
 - (v) The availability of other disposal locations.
 - (vi) Other relevant factors.
- (2) The director shall approve or deny a response action plan within 60 days of submittal. If the director denies a plan, then the director shall specify schedules for closure and interim response necessary to protect human health and the environment.
- (3) If the concentrations of all constituents that are listed in R 299.4318(5), or other applicable hazardous substances, are shown to be at or below background values, using the statistical procedures in R 299.4908, for 2 consecutive sampling events, or other concentrations authorized pursuant to part 201 of the act, then the owner and operator shall notify the director of this finding and may suspend actions under the response action plan.
- (4) As part of a response action plan for a type III landfill, the owner or operator shall do both of the following:
 - (a) Establish groundwater protection standards for all constituents that are determined to be above background in accordance with part 201 of the act.
 - (b) If necessary, initiate a remedial investigation pursuant to part 201 of the act.
- (5) If the concentration of any constituent listed in R 299.4318(5) or other applicable hazardous substance is above

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background, but all concentrations are below the appropriate cleanup criteria for groundwater established by the department pursuant to section 20120a(1)(a) of the act, then the owner and operator shall do all of the following:

- (a) Continue response actions to control the source of contamination.
- (b) Continue groundwater monitoring in accordance with R 299.4318.
- (c) Characterize the nature and extent of any release by installing additional monitoring wells, as necessary.
- (d) If the sampling of wells indicates that hazardous substances have migrated off-site, notify all persons who own the land or reside on the land that directly overlies any part of the impacted area.
- (6) If 1 or more hazardous substances are detected at statistically significant levels and are above the appropriate cleanup criteria for groundwater established by the department pursuant to section 20120a of the act in any sampling event, then the owner or operator shall do all of the following:
 - (a) Continue response actions to control the source of contamination.
 - (b) Continue groundwater monitoring in accordance with the provisions of R 299.4318.
 - (c) Characterize the nature and extent of any release by installing additional monitoring wells, as necessary.
 - (d) If the sampling of wells indicates that hazardous substances have migrated off-site, notify all persons who own the land or reside on the land that directly overlies any part of the impacted area.
 - (e) Initiate a feasibility study, as specified in part 201 of the act. The feasibility study shall be completed within a reasonable period of time approved by the director.
- (7) Based on the results of the feasibility study, the owner and operator shall propose to the director a remedial action plan which is in compliance with the provisions of part 201 of the act.

History: 1993 MR 9, Eff. Oct. 8, 1993; 2005 MR 19, Eff. Oct. 20, 2005.

PART 4. MUNICIPAL SOLID WASTE LANDFILLS

R 299.4401

Source: 1997 AACS.

R 299.4402

Source: 1997 AACS.

R 299.4403

Source: 1997 AACS.

R 299.4404

Source: 1997 AACS.

R 299.4405

Source: 1997 AACS.

R 299.4406

Source: 1997 AACS.

R 299.4407

Source: 1997 AACS.

R 299.4408

Source: 1997 AACS.

R 299.4409

Source: 1993 AACS.

R 299.4410

Source: 1998-2000 AACS.

R 299.4411

Source: 1998-2000 AACS.

R 299.4412 Type II landfill location restrictions; horizontal isolation distances.

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Rule 412. (1) The requirements of this rule apply to type II landfills that are new disposal areas.

(2) A type II landfill shall be located and designed to ensure that the isolation distance between the active work area of the landfill and adjacent property is adequate to prevent the creation of nuisance conditions due to any of the following:

(a) Noise in excess of the levels specified in R 299.4431.

(b) Blowing papers.

(c) Dust.

(d) Odor.

(e) Vectors.

(f) Pest animals.

(g) Equipment vibration.

(3) An applicant for a type II landfill construction permit shall submit a management plan for controlling nuisance conditions and their impact on adjoining land uses. The plan shall include recommended isolation distances to prevent nuisances based on the environmental assessment submitted under R 299.4903. However, the director shall require greater isolation distances from adjacent property lines if the director determines that greater isolation is necessary to meet the performance standards of these rules.

(4) The active work area at the facility shall not be located closer than 100 feet to adjacent property lines or road rights-of-way or closer than 300 feet to domiciles that exist at the time an advisory analysis is requested. In addition, the approval of an isolation distance that is less than 200 feet from adjacent property lines or road rights-of-way requires the existence of a berm which is not less than 8 feet high, which has a 4-foot fence on top, and which is constructed around the perimeter of the active work area or the existence of natural screening that offers equivalent protection.

(5) The active work area of a type II landfill shall not be located within the following distances of surface waters:

(a) Within 400 feet of inland lakes and streams, as defined in part 301 of the act, but not including drains, as defined by 1956 PA 40, MCL 280.1. The distance is equivalent to that isolation distance required from natural rivers by part 305 of the act.

(b) Within 2,000 feet of the Great Lakes or Lake St. Clair.

(6) The active work area of a type II landfill shall not be located within the isolation area of a wellhead which is used as a domestic or public water supply, as defined in Act 399, and which is in existence at the time an advisory analysis is requested for the disposal area under section 11510 of the act. Except as provided in subrule (7) of this rule, the isolation area shall be as follows:

(a) The active work area shall be a minimum of 2,000 feet from wells that serve type I and type IIa water supplies, as defined in R 325.10502.

(b) The active work area shall be a minimum distance of 800 feet from wells that serve type IIb and type III public water supplies, as defined in R 325.10502, and from off-site domestic wells. The 800-foot isolation distance to off-site domestic wells does not apply when the domestic well is located on property owned by the facility, provided that adequate monitoring of the domestic well is required by the facility's hydrogeological monitoring plan or an appendix to that plan. This well shall not be removed from the facility's hydrogeological monitoring plan without department approval.

(7) The director shall require an increase or approve a decrease in the isolation area to a public water supply based on the hydrogeological report and Act 399.

(8) The requirements of this rule do not apply to type II landfills that are new disposal areas located within the footprint of the existing disposal areas.

History: 1993 MR 9, Eff. Oct. 8, 1993; 1999 MR 3, Eff. Apr. 12, 1999; 2005 MR 19, Eff. Oct. 20, 2005.

R 299.4413

Source: 1998-2000 AACS.

R 299.4414

Source: 1993 AACS.

R 299.4415

Source: 1998-2000 AACS.

R 299.4416

Source: 1998-2000 AACS.

R 299.4417

Source: 1993 AACS.

R 299.4418

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Source: 1993 AACS.

R 299.4419

Source: 1998-2000 AACS.

R 299.4420

Source: 1998-2000 AACS.

R 299.4421

Source: 1993 AACS.

R 299.4422

Source: 1998-2000 AACS.

R 299.4423

Source: 1998-2000 AACS.

R 299.4424

Source: 1998-2000 AACS.

R 299.4425

Source: 1998-2000 AACS.

R 299.4426

Source: 1993 AACS.

R 299.4427

Source: 1993 AACS.

R 299.4428

Source: 1993 AACS.

R 299.4429

Source: 1998-2000 AACS.

R 299.4430

Source: 1998-2000 AACS.

R 299.4431

Source: 1998-2000 AACS.

R 299.4432

Source: 1998-2000 AACS.

R 299.4433

Source: 1998-2000 AACS.

R 299.4434

Source: 1998-2000 AACS.

R 299.4435

Source: 1998-2000 AACS.

R 299.4436

Source: 1998-2000 AACS.

R 299.4437

Source: 1998-2000 AACS.

R 299.4438

Source: 1998-2000 AACs.

R 299.4439 Type II landfill groundwater monitoring and corrective action; applicability.

Rule 439. (1) The requirements of R 299.4440 to R 299.4445 apply to all type II landfill units, except as provided in subrules (2) and (6) of this rule.

(2) An owner or operator of a type II landfill may petition the director to reduce or waive certain groundwater monitoring requirements specified in R 299.4440 to R 299.4445 if the owner or operator can demonstrate that there is no potential for the migration of hazardous constituents from that type II landfill unit to the uppermost aquifer during the active life of the unit and the post-closure care period. This demonstration shall be certified by a qualified groundwater scientist and approved by the director and shall be based upon both of the following:

(a) Site-specific field collected measurements, sampling, and analysis of physical, chemical, and biological processes that affect contaminant fate and transport.

(b) Contaminant fate and transport predictions that maximize contaminant migration and consider impacts on human health and the environment.

(3) The director shall waive sampling and analysis for secondary organic constituents specified in R 299.4454 upon a demonstration by the owner or operator that the criteria of subrule (2) of this rule are met by the following conditions:

(a) The landfill unit will have an active life less than 20 years.

(b) The landfill unit meets both the location criteria of R 299.4422(3) and the design criteria of R 299.4422(4), which provide for a secondary collection system.

(c) The constituents have not been detected in the secondary collection system.

(4) Owners and operators of type II landfill units shall comply with the groundwater monitoring requirements of this part before waste can be placed in the unit.

(5) Once established at a type II landfill unit, groundwater monitoring shall be conducted throughout the active life and 30-year post-closure care period of that unit as specified in R 299.4449.

(6) In addition to the requirements of subrule (4) of this rule, owners and operators of preexisting landfill units shall comply with the groundwater monitoring plan for the unit approved by the director before the effective date of this rule, unless a new plan is approved by the director.

History: 1993 MR 9, Eff. Oct. 8, 1993; 2005 MR 19, Eff. Oct. 20, 2005.

R 299.4440 Type II landfill groundwater monitoring; detection monitoring program.

Rule 440. (1) Detection monitoring is required at type II landfill units at all groundwater-monitoring wells defined in R 299.4906. At a minimum, a detection-monitoring program for a type II landfill shall include monitoring for all of the following constituents:

(a) The primary indicators listed in R 299.4450, conductivity and pH, at least quarterly during the active life and semiannually during the postclosure period, except as provided for in subrule (5) and (6) of this rule.

(b) The following constituents listed at least semiannually during the active life of the facility and the postclosure period, except as provided in subrules (2) to (6) of this rule:

(i) Heavy metals that are listed in R 299.4452.

(ii) Primary volatile organic constituents listed in R 299.4453.

(iii) Secondary organic constituents listed in R 299.4454.

(2) The director shall waive the sampling and analysis of some or all of the heavy metals specified in R 299.4452 if other inorganic indicator parameters listed in R 299.4450 or R 299.4451 provide a reliable indication of inorganic releases from the unit to groundwater. In determining whether to approve a waiver, the director shall consider all of the following factors:

(a) The types, quantities, and concentrations of constituents in the wastes that are managed at the type II landfill unit.

(b) The mobility, stability, and persistence of waste constituents or their reaction products in the unsaturated zone beneath the type II landfill unit.

(c) The detectability of indicator parameters, waste constituents, and reaction products in the groundwater.

(d) The concentration and variance of monitoring parameters in the groundwater background.

(3) The owner and operator of a type II landfill unit that contains a secondary collection system shall be deemed to have met the criteria of subrule (2) of this rule and may conduct sampling and analysis for primary indicators listed in R 299.4450 in place of the heavy metals listed in R 299.4452 if all of the following conditions are met:

(a) Leachate monitoring shows that the concentration of all of the indicators in leachate is not less than 10 times the concentration in groundwater.

(b) Secondary collection system monitoring shows all of the following:

(i) That the allowable flow rate has not been exceeded.

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- (ii) That the concentration of 2 or more indicators in the system is not more than the following threshold values for 2 consecutive sampling events:
 - (A) For chlorides, 250 mg/l.
 - (B) For iron, 0.3 mg/l.
 - (C) For sulfates, 250 mg/l.
 - (D) For total inorganic nitrogen, 10 mg/l.
 - (E) For total dissolved solids, 500 mg/l.
 - (F) For other constituents, a value approved by the director.
- (iii) That volatile organics listed in R 299.4453 have not been detected in the secondary collection system.
- (iv) That the concentration of metals listed in R 299.4452 has not exceeded the part 201 generic residential cleanup criteria contained in R 299.5744 and R 299.5746.
- (c) The unit is a monitorable unit.
- (d) The concentration of the indicators in groundwater is normally distributed.
- (4) The director shall delete any of the monitoring parameters listed in R 299.4452 to R 299.4454 for a type II landfill unit if it can be shown that the removed constituents are not reasonably expected to be in or derived from the waste that is contained in the unit. An owner or operator may demonstrate that a constituent is not expected to be in or derived from the waste if the constituent and any breakdown products are not detectable in leachate at practical quantitation limits approved by the director based on historic analysis of leachate from not less than 2 sampling events.
- (5) The owner and operator of a type II landfill may apply to the director for an appropriate alternative frequency for repeated sampling and analysis for pH, conductivity, and the constituents specified in R 299.4450 to R 299.4454, during the active life, including closure, and the postclosure care period. The alternative frequency during the active life, including closure, shall be at least semiannually for pH, conductivity, and the constituents specified in R 299.4450 and R 299.4451, and at least annually for the constituents specified in R 299.4452 to R 299.4454. The alternative frequency shall be based on consideration of all of the following factors:
 - (a) The lithology of the aquifer and unsaturated zone.
 - (b) The hydraulic conductivity of the aquifer and unsaturated zone.
 - (c) The groundwater flow rates.
 - (d) The minimum distance of travel between waste and the closest downgradient monitoring well screen.
 - (e) The presence of an alternative monitoring system, such as a secondary collection system.
 - (f) The resource value of the aquifer.
- (6) The owner or operator of a type II landfill unit shall be deemed to meet the criteria of subrule (5) of this rule and may reduce sampling of the following constituents to the following frequency during the active life and 30-year postclosure period if the following conditions are met as applicable:
 - (a) The heavy metals listed in R 299.4452 and secondary organic constituents listed in R 299.4454 to annually if the active portions of the unit contain a composite liner underlain by a natural soil barrier in compliance with the leakage control criteria of R 299.4422(2).
 - (b) For monitorable units which contain a secondary collection system in the active portion, but which are not underlain by a natural soil barrier meeting the criteria of R 299.4422(2), all constituents listed in R 299.4450 to R 299.4454 to the following frequency:
 - (i) To annually, if the average daily flow rate in the secondary collection system of all landfill cells in the active portion does not exceed the following flow rates during the previous 6 months:
 - (A) A value of 5 gallons per acre per day for landfill cells that have less than 2 feet of compacted clay in the primary liner.
 - (B) A value of 50 gallons per acre per day for landfill cells that have not less than 2 feet of compacted clay in the primary liner.
 - (ii) To semiannually, if the average daily flow rate in the secondary collection system of any landfill cell in the active portion has exceeded the flow rates specified in paragraph (i) of this subdivision in the previous 6 months, but has not exceeded the following action flow rates for the cell during the previous 6 months:
 - (A) A value of 25 gallons per acre per day for landfill cells that have less than 2 feet of compacted clay in the primary liner.
 - (B) A value of 200 gallons per acre per day for landfill cells that have not less than at least 2 feet of compacted clay in the primary liner.
 - (c) For monitorable units that contain a secondary collection system in the active portion underlain by a natural soil barrier meeting the criteria of R 299.4422(2), to annually if the average daily flow rate in the secondary collection system of any landfill cell in the active portion has not exceeded the following flow rates during the previous 6 months:
 - (i) A value of 25 gallons per acre per day for landfill cells that have less than 2 feet of compacted clay in the primary liner.
 - (ii) A value of 200 gallons per acre per day for landfill cells that have not less than 2 feet of compacted clay in the primary liner.

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(7) If insufficient background data exists to perform statistical analysis, a minimum of 4 independent samples shall be collected and analyzed during the first sampling event. At least 1 sample from each detection monitoring well shall be collected and analyzed during subsequent sampling events. An alternate background collection schedule may be approved by the director. An interim statistical method may be utilized during the period in which background data is collected.

(8) If the owner and operator determine, pursuant to a statistical test specified in R 299.4908, that there is a statistically significant increase over background for 1 or more of the constituents at any monitoring well at the solid waste boundary or at other monitoring locations required by the director, then the owner and operator shall do both of the following:

(a) Within 14 days of the determination, place a notice in the operating record that indicates which constituents have shown statistically significant increases from background levels and notify the director that the notice is placed in the operating record.

(b) Prepare and submit to the director an assessment monitoring plan that is in compliance with R 299.4441 and a response action plan that is in compliance with R 299.4442 within 45 days of the determination, or pursuant to an alternate schedule approved by the director, except as provided in subrule (9) of this rule.

(9) The owner and operator may demonstrate to the director that a source other than a landfill unit caused the contamination or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation or from natural variation in groundwater quality. A report that documents the demonstration shall be certified by a qualified groundwater scientist, be submitted to the director within 30 days of the determination specified in subrule (8) of this rule, and be placed in the operating record. If the director determines that the alternate source demonstration prepared pursuant to this subrule has not been successfully provided, the deficiencies shall be specified to the petitioner in writing and the petitioner granted 15 days to address those deficiencies identified by the director. If a successful demonstration is made and documented, then the owner or operator shall do the following:

(a) Continue detection monitoring as specified in this rule.

(b) Determine whether the presence of hazardous constituents in groundwater renders any new units or lateral extensions within the solid waste boundary unmonitorable. If so, the owner and operator shall develop a schedule for submitting revised engineering plans for such lateral extensions or new units that include a leak detection system.

(10) If the director notifies the owner and operator that a successful demonstration has not been made, then, within 15 days of notification by the director, the owner and operator shall prepare an assessment monitoring program as required in R 299.4441 and submit a response action plan to the director as required in R 299.4442.

History: 1993 MR 9, Eff. Oct. 8, 1993; 1999 MR 3, Eff. Apr. 12, 1999; 2005 MR 19, Eff. Oct. 20, 2005.

R 299.4441 Type II landfill groundwater monitoring; assessment monitoring program.

Rule 441. (1) Assessment monitoring is required at a type II landfill if a statistically significant increase over background has been detected for 1 or more of the constituents listed in R 299.4440.

(2) Within 60 days of the submittal of an assessment monitoring program, and annually thereafter, the owner and operator of a type II landfill shall sample the groundwater for analysis of all constituents listed in R 299.4450 to R 299.4452 and 40 C.F.R. part 258, appendix II at an appropriate subset of monitoring wells approved by the director. A minimum of 1 sample from each approved downgradient well shall be collected and analyzed during each sampling event. For any constituent that is detected in the downgradient wells as a result of the complete R 299.4450 to R 299.4452 and appendix II constituent analysis, a minimum of 4 independent samples from each background and downgradient well shall be collected and analyzed to establish background for the constituents. The director shall consider an appropriate subset of wells to be sampled and analyzed for R 299.4450 to R 299.4452 and appendix II constituents during assessment monitoring. The director shall delete any of the R 299.4450 to R 299.4452 and appendix II constituents for a unit if it can be shown, based on leachate data, secondary collection system monitoring, waste classification data, or other data, that the removed constituents are not reasonably expected to be in or derived from the waste contained in the unit or that the constituent is not a reliable indicator parameter.

(3) The director shall specify an appropriate frequency for repeated sampling and analysis for all of the R 299.4450 to R 299.4452 and appendix II constituents for which sampling and analysis are required by this rule during the active life, including closure, and post-closure care of the unit. In specifying the frequency, the director shall consider all of the following factors:

(a) The lithology of the aquifer and unsaturated zone.

(b) The hydraulic conductivity of the aquifer and unsaturated zone.

(c) Groundwater flow rates.

(d) The minimum distance between upgradient edge of the unit and downgradient monitoring well screen.

(e) The nature of any constituents detected in response to this rule.

(4) After obtaining the results from the initial or subsequent sampling events required in subrule (2) of this rule, the owner and operator shall do all of the following:

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- (a) Within 14 days, place a notice in the operating record that identifies the R 299.4450 to R 299.4452 and appendix II constituents that have been detected and notify the director that this notice has been placed in the operating record.
- (b) Within 90 days, and on at least a semiannual basis thereafter, resample all wells specified by the provisions of R 299.4441(2), conduct analyses for all constituents listed in R 299.4450 to R 299.4454 and for those constituents listed in appendix II that are detected in response to the requirements of subrule (2) of this rule and are present at statistically significant levels above background, and record their concentrations in the facility operating record. At least 1 sample from each background and downgradient well shall be collected and analyzed during these sampling events. The director shall consider an alternative monitoring frequency during the active life, including closure, and the post-closure period for the constituents referred to in this subdivision. The alternative frequency for constituents listed in R 299.4452 to R 299.4454, during the active life, including closure, shall be at least annually. The alternative frequency shall be based on consideration of the factors specified in subrule (3) of this rule.
- (c) Establish background concentrations for any constituents detected pursuant to this rule where background has not already been established.
- (d) Establish groundwater protection standards consistent with section 20120a of the act for all constituents that are detected pursuant to this rule.
- (5) If the concentrations of all constituents listed in R 299.4450 to R 299.4454 and all appendix II constituents are shown to be at or below background values, using the statistical procedures in R 299.4908, for 2 consecutive sampling events, then the owner and operator shall notify the director of the finding and may return to detection monitoring.
- (6) If the concentration of any constituent listed in R 299.4450 to R 299.4454 or any appendix II constituents are above background values, but all concentrations are below the groundwater protection standard established pursuant to the provisions of subrule (9) of this rule, then the owner and operator shall do all of the following:
 - (a) Continue assessment monitoring in accordance with this rule.
 - (b) Characterize the nature and extent of the release by installing additional monitoring wells as necessary.
 - (c) Install at least 1 additional monitoring well at the facility boundary in the direction of contaminant migration and sample the well in accordance with the provisions of subrule (4) of this rule.
 - (d) Notify all persons who own the land or reside on the land that directly overlies any part of the plume of contamination if contaminants have migrated off-site as indicated by the sampling of wells in accordance with this rule.
- (7) If 1 or more constituent listed in R 299.4450 to R 299.4454 or appendix II constituents are detected at statistically significant levels and are above the groundwater protection standard established pursuant to subrule (9) of this rule, in any sampling event, then the owner or operator shall do all of the following:
 - (a) Within 14 days of the detection, place a notice in the operating record that identifies the hazardous substances that have exceeded any criteria for groundwater established pursuant to section 20120a of the act.
 - (b) Notify the director and all appropriate local government officials that the notice has been placed in the operating record.
 - (c) Continue assessment monitoring in accordance with this rule.
 - (d) Install at least 1 additional monitoring well at the facility boundary in the direction of contaminant migration and sample the well in accordance with subrule (4) of this rule.
 - (e) Characterize the nature and extent of the release by installing additional monitoring wells as necessary.
 - (f) Notify all persons who own the land or reside on the land that directly overlies any part of the plume of contamination if contaminants have migrated off-site as indicated by the sampling of wells in accordance with this rule.
 - (g) Except as provided by subrule (8) of this rule, initiate an assessment of corrective measures as required by R 299.4443 within 90 days of the detection.
- (8) An owner and operator may demonstrate that a source other than a type II landfill unit or other source at the facility caused the contamination or that the statistically significant increase resulted from error in sampling, analysis, or statistical evaluation or from natural variation in groundwater quality. A report that documents the demonstration shall be certified by a qualified groundwater scientist, approved by the director, and placed in the operating record. Until a successful demonstration is made, the owner and operator shall comply with subrules (6) and (7) of this rule. If a successful demonstration is made, the owner and operator shall do the following:
 - (a) Continue monitoring in accordance with the assessment monitoring program pursuant to this rule. The owner and operator may return to detection monitoring if the hazardous substances are at or below background as specified in subrule (5) of this rule.
 - (b) Determine whether any new units or lateral extensions of existing units will be unmonitorable. If so, the owner and operator shall develop a schedule for submitting revised engineering plans for such lateral extensions and new units that are in compliance with the provisions of R 299.4422(4), and include a leak detection system.
 - (c) Not be subject to the response action plan requirements of R 299.4442 or the assessment of corrective measures of R 299.4443.
- (9) The owner or operator shall establish a groundwater protection standard for each hazardous substance that is detected in

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groundwater. The groundwater protection standard shall be as follows:

(a) For constituents for which a maximum contaminant level has been promulgated pursuant to the provisions of section 1412 of the safe drinking water act and has been codified at 40 C.F.R. part 141, the lowest of the following:

(i) The maximum contaminant level for that constituent.

(ii) The applicable cleanup criteria for that constituent for groundwater as established pursuant to section 20120a of the act.

(b) For constituents for which the background level is higher than the maximum contaminant level or applicable cleanup criteria for groundwater, the background concentration.

(c) For constituents for which a maximum contaminant level has not been promulgated, either of the following:

(i) The background concentration for the constituent established from wells in accordance with the provisions of R 299.4906(1).

(ii) The applicable cleanup criteria for that constituent for groundwater established pursuant to section 20120a of the act.

History: 1993 MR 9, Eff. Oct. 8, 1993; 2005 MR 19, Eff. Oct. 20, 2005.

R 299.4442 Type II landfill groundwater monitoring; response action plan.

Rule 442. (1) The owner and operator of a type II landfill unit that is required to prepare a response action plan shall identify all of the following:

(a) Possible sources of contamination.

(b) Interim response activities taken or to be taken to control possible sources of contamination.

(c) For units that the owner or operator concludes are probable sources of contamination, a schedule for terminating waste receipt, for initiating closure at units, and for redesigning and constructing new units that have leak detection systems. The schedule shall be based on all of the following:

(i) The concentration of hazardous substances.

(ii) The rate of migration.

(iii) Risks to human health and the environment, including the proximity of drinking water supplies.

(iv) The practicality of initiating closure.

(v) The availability of other disposal locations.

(vi) Other relevant factors.

(2) The director shall approve or deny a response action plan within 60 days of submittal. If the director denies a plan, the director shall specify schedules for closure and interim response necessary to protect human health and the environment.

(3) If the concentrations of all hazardous substances are shown to be at or below background values, using the statistical procedures in R 299.4908, for 2 consecutive sampling events, the owner and operator shall notify the director of this finding and may suspend actions under the response action plan.

History: 1993 MR 9, Eff. Oct. 8, 1993; 2005 MR 19, Eff. Oct. 20, 2005.

R 299.4443 Type II landfill corrective action; assessment of corrective measures.

Rule 443. (1) Within 90 days of finding that any hazardous substances have been detected at a statistically significant level, and exceed the groundwater protection standards defined in R 299.4441, the owner and operator of a type II landfill shall initiate an assessment of corrective measures. Such an assessment shall be completed within a reasonable period of time approved by the director.

(2) The owner and operator shall continue to monitor in accordance with the assessment-monitoring program as specified in R 299.4441.

(3) The assessment or corrective measures shall be in compliance with the requirements for feasibility studies contained in part 201 of the act and shall include an analysis of the effectiveness of potential corrective measures in meeting all of the requirements and objectives of the remedy. The analyses shall address all of the following areas:

(a) The performance, reliability, ease of implementation, and potential impacts of appropriate potential remedies, including safety impacts, cross-media impacts, and control of exposure to any residual contamination.

(b) The time required to begin and complete the remedy.

(c) The costs of remedy implementation.

(d) The institutional requirements, such as state or local permit requirements or other environmental or public health requirements, that may substantially affect implementation of the remedy or remedies.

(4) The owner and operator shall discuss the results of the feasibility study of corrective measures in a public meeting with interested and affected parties before selecting a remedy.

History: 1993 MR 9, Eff. Oct. 8, 1993; 2005 MR 19, Eff. Oct. 20, 2005.

R 299.4444 Type II landfill corrective action; remedy selection and remedial action plan.

Rule 444. (1) Based on the results of the corrective measures assessment pursuant to R 299.4443, the owner and operator

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shall propose to the director a remedy that, at a minimum, meets the standards specified in subrule (2) of this rule. The owner and operator shall, within 14 days of selecting a remedy, submit to the director a proposed remedial action plan which is in compliance with part 201 of the act and which describes the selected remedy and how it meets the standards of part 201 of the act. The proposed remedial action plan shall be placed in the operating record.

(2) Remedies that are proposed by an owner or operator shall be in compliance with all of the following provisions:

(a) Be protective of human health and the environment.

(b) Be able to attain the groundwater protection standard as specified in R 299.4441.

(c) Control the source or sources of releases so as to reduce or eliminate, to the maximum extent practicable, further releases of R 299.4450 to R 299.4452 and appendix II constituents into the environment that may pose a threat to human health or the environment.

(d) Be in compliance with standards for the management of wastes as specified in R 299.4445(4).

(3) In selecting a remedy that is in compliance with the standards of subrule (2) of this rule, the owner or operator shall consider all of the following evaluation factors:

(a) The long- and short-term effectiveness and protectiveness of the potential remedy or remedies, together with the degree of certainty that the remedy will prove successful based on a consideration of all of the following:

(i) The magnitude of the reduction of existing risks.

(ii) The magnitude of residual risks in terms of the likelihood of further releases due to waste that remains after the implementation of a remedy.

(iii) The type and degree of long-term management required, including monitoring, operation, and maintenance.

(iv) Short-term risks that might be posed to the community, workers, or the environment during the implementation of a remedy, including the potential threats to human health and the environment that are associated with excavation, transportation, and the redisposal of contaminants.

(v) Time until full protection is achieved.

(vi) The potential for the exposure of humans and environmental receptors to remaining wastes, considering the potential threat to human health and the environment that is associated with excavation, transportation, redisposal, or containment.

(vii) The long-term reliability of the engineering and institutional controls.

(viii) The potential need for replacement of the remedy.

(b) The effectiveness of the remedy in controlling the source to reduce further releases based on a consideration of both of the following factors:

(i) The extent to which containment practices will reduce further releases.

(ii) The extent to which treatment technologies may be used.

(c) The ease or difficulty of implementing a potential remedy or remedies based on a consideration of all of the following types of factors:

(i) The degree of difficulty that is associated with constructing the technology.

(ii) The expected operational reliability of the technologies.

(iii) The need to coordinate with, and obtain necessary approvals and permits from, other agencies.

(iv) The availability of necessary equipment and specialists.

(v) The available capacity and location of needed treatment, storage, and disposal services.

(d) The practicable capability of the owner or operator, including a consideration of the technical and economic capability.

(e) The degree to which community concerns are addressed by a potential remedy or remedies.

(4) The owner and operator shall specify, as part of the remedial action plan, a schedule for initiating and completing remedial activities. The schedule shall require the initiation of remedial activities within a reasonable period of time approved by the director, taking into consideration the factors set forth in this subrule. The owner or operator shall consider all of the following factors in determining the schedule of remedial activities:

(a) The extent and nature of contamination.

(b) The practical capabilities of remedial technologies in achieving compliance with groundwater protection standards established pursuant to R 299.4441(9) and other objectives of the remedy.

(c) The availability of treatment or disposal capacity for wastes that are managed during implementation of the remedy.

(d) The desirability of utilizing technologies which are not currently available, but which may offer significant advantages over already available technologies in terms of effectiveness, reliability, safety, or ability to achieve remedial objectives.

(e) The potential risks to human health and the environment from exposure to contamination before completion of the remedy.

(f) The resource value of the aquifer, including all of the following information:

(i) The current and future uses.

(ii) The proximity and withdrawal rate of users.

(iii) The groundwater quantity and quality.

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- (iv) The potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituent.
 - (v) The hydrogeologic characteristic of the facility and surrounding land.
 - (vi) Groundwater removal and treatment costs.
 - (vii) The cost and availability of alternative water supplies.
 - (g) The practicable capability of the owner or operator.
 - (h) Other relevant factors.
- (5) The director shall not approve a remedial action plan that relies upon criteria other than the groundwater protection standard specified in the provisions of R 299.4441, unless the owner or operator demonstrates, to the satisfaction of the director, any of the following:
- (a) The groundwater is additionally contaminated by substances that have originated from a source other than a unit and those substances are present in concentrations such that cleanup of the release from the unit would not provide a significant reduction in risk to actual or potential receptors.
 - (b) The constituent or constituents are present in groundwater that is neither of the following:
 - (i) Currently, or reasonably expected to be, a source of drinking water.
 - (ii) Hydraulically connected with waters to which the hazardous constituents are migrating or are likely to migrate in a concentration or concentrations that would exceed the groundwater protection standards established pursuant to R 299.4441.
 - (c) Remediation of the release or releases is technically impracticable.
 - (d) Remediation results in unacceptable cross-media impacts.
- (6) A determination by the director pursuant to subrule (5) of this rule shall not affect the authority of the director to require the owner or operator to undertake source control measures or other measures that may be necessary to eliminate or minimize further releases to the groundwater, to prevent exposure to the groundwater, or to remediate the groundwater to concentrations that are technically practicable and significantly reduce threats to human health or the environment.
- (7) The director shall evaluate proposed remedies utilizing the criteria specified in this rule and part 201 of the act.
- History: 1993 MR 9, Eff. Oct. 8, 1993; 2005 MR 19, Eff. Oct. 20, 2005.

R 299.4445 Type II landfill corrective action; implementation of remedial action plan.

- Rule 445. (1) Based on the schedule established pursuant to R 299.4444 for the initiation and completion of remedial activities, the owner and operator shall do all of the following:
- (a) Establish and implement a corrective action groundwater-monitoring program that is in compliance with all of the following provisions:
 - (i) At a minimum, meets the requirements of an assessment-monitoring program pursuant to R 299.4441.
 - (ii) Indicate the effectiveness of the corrective action remedy.
 - (iii) Demonstrate compliance with the groundwater protection standard.
 - (b) Implement the remedial action plan approved pursuant to R 299.4444.
 - (c) Take any interim response activities which are required by the director or which are otherwise necessary to ensure the protection of human health and the environment. Interim measures shall, to the greatest extent practicable, be consistent with the objectives, and contribute to the performance, of any remedy that may be required pursuant to R 299.4444. All of the following factors shall be considered by an owner or operator in determining whether interim measures are necessary:
 - (i) The time that is required to develop and implement a final remedy.
 - (ii) The actual or potential exposure of nearby populations or environmental receptors to hazardous constituents.
 - (iii) The actual or potential contamination of drinking water supplies or sensitive ecosystems.
 - (iv) The further degradation of the groundwater that may occur if remedial action is not initiated expeditiously.
 - (v) The weather conditions that may cause hazardous constituents to migrate or be released.
 - (vi) The risks of fire or explosion, or the potential for exposure to hazardous constituents as a result of an accident or failure of a container or handling system.
 - (vii) Other situations that may pose threats to human health and the environment.
- (2) An owner or operator may determine, based on information that is developed after the implementation of the remedy has begun or other information, that compliance with the requirements of R 299.4444 is not being achieved through the remedy selected. In such cases, the owner or operator shall implement other methods or techniques that could practicably achieve compliance with the requirements, unless the owner or operator makes the determination specified in subrule (3) of this rule.
- (3) If the owner or operator determines that compliance with requirements of R 299.4444(2) cannot be practically achieved with any currently available methods, then the owner or operator shall do all of the following:
- (a) Obtain the certification of a qualified groundwater scientist and the approval of the director that compliance with the requirements of R 299.4444(2) cannot be practically achieved with any currently available methods.
 - (b) Implement alternate measures to control the exposure of humans or the environment to residual contamination as necessary to protect human health and the environment.

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(c) Implement alternate measures that are in compliance with both of the following provisions for controlling the sources of contamination or for removing or decontaminating equipment, units, devices, or structures:

(i) Are technically practicable.

(ii) Are consistent with the overall objective of the remedy.

(d) Notify the director within 14 days that a report which justifies the alternative measures before implementing the alternative measures has been placed in the operating record.

(4) All solid wastes that are managed pursuant to a remedy or an interim measure required pursuant to the provisions of R 299.4444 shall be managed in a manner that is in compliance with both of the following provisions:

(a) Is protective of human health and the environment.

(b) Is in compliance with applicable requirements of the act and these rules.

(5) Remedies that are selected pursuant to R 299.4444 shall be considered complete when the owner or operator complies with the groundwater protection standards established pursuant to R 299.4441 at all points within the plume of contamination and when all actions to complete the remedy have been satisfied. For purposes of these rules, compliance with the groundwater protection standards established pursuant to R 299.4441 has been achieved by demonstrating that concentrations of R 299.4450 to R 299.4452 and appendix II constituents have not exceeded the groundwater protection standards for a period of 3 consecutive years using the statistical procedures and performance standards specified in R 299.4908 or for an alternative length of time which is approved by the director and which takes into consideration all of the following factors:

(a) The extent and concentration of the releases.

(b) The behavior characteristics of the hazardous constituents in the groundwater.

(c) The accuracy of monitoring or modeling techniques, including any seasonal, meteorological, or other environmental variables that may affect the accuracy.

(d) The characteristics of the groundwater.

(6) Upon completion of the remedy, the owner and operator shall notify the director within 14 days that the remedy has been completed in compliance with the requirements of these rules and has been placed in the operating record. The certification shall be signed by the owner and operator and by a qualified groundwater scientist and shall be approved by the director.

(7) When, upon completion of the certification, the owner or operator determines that the corrective action remedy has been completed in accordance with the requirements of this rule, the owner and operator shall be released from the requirements for financial assurance for corrective action pursuant to the act and these rules.

(8) The owner and operator shall be responsible for obtaining permission to enter off-site property to complete a remedial action plan.

History: 1993 MR 9, Eff. Oct. 8, 1993; 2005 MR 19, Eff. Oct. 20, 2005.

R 299.4446

Source: 1993 AACS.

R 299.4447

Source: 1993 AACS.

R 299.4448

Source: 1993 AACS.

R 299.4449

Source: 1993 AACS.

R 299.4450

Source: 1998-2000 AACS.

R 299.4451 Type II landfill monitoring; alternate indicators.

Rule 451. (1) The following constituents are alternate indicators for purposes of monitoring type II landfills under this part:

(a) Magnesium.

(b) Manganese.

(c) Potassium.

(d) Sodium.

(e) Bicarbonate alkalinity.

(f) Carbonate alkalinity.

(g) Calcium.

(h) Phenolics.

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- (i) Cyanide.
 - (j) Total organic carbon.
 - (k) Chemical oxygen demand.
 - (l) Boron.
 - (2) A person may propose constituents other than those listed in this rule as an alternate indicator.
 - (3) The constituents listed in this rule shall be analyzed by methods specified in the EPA document entitled "Standard Methods for the Examination of Water and Wastewater, 19th edition," which is adopted by reference in R 299.4139, or by other methods approved by the director or his or her designee.
- History: 1993 MR 9, Eff. Oct. 8, 1993; 1999 MR 3, Eff. Apr. 12, 1999; 2005 MR 19, Eff. Oct. 20, 2005.

R 299.4452

Source: 1998-2000 AACS.

R 299.4453 Type II landfill monitoring; primary volatile organic constituents.

Rule 453. (1) The constituents specified in this rule are considered primary volatile organic constituents for purposes of type II landfill monitoring.

(2) The following are halogenated volatile organic constituents:

- (a) Bromodichloromethane.
- (b) Bromoform; tribromomethane.
- (c) Carbon tetrachloride.
- (d) Chlorobenzene.
- (e) Chloroethane; ethyl chloride.
- (f) Chloroform; trichloromethane.
- (g) Dibromochloromethane; chlorodibromomethane.
- (h) o-Dichlorobenzene; 1,2-dichlorobenzene.
- (i) p-Dichlorobenzene; 1,4-dichlorobenzene.
- (j) 1,1-Dichloroethane; ethylidene chloride.
- (k) 1,2-Dichloroethane; ethylene dichloride.
- (l) 1,1-Dichloroethylene; 1,1-dichloroethene; vinylidene chloride.
- (m) cis-1,2-Dichloroethylene; cis-1,2-dichloroethene.
- (n) Trans-1,2-dichloroethylene; trans-1,2-dichloroethene.
- (o) 1,2-Dichloropropane; propylene dichloride.
- (p) cis-1,3-dichloropropene.
- (q) Trans-1,3-dichloropropene.
- (r) Methyl bromide; bromomethane.
- (s) Methyl chloride; chloromethane.
- (t) Methylene bromide; dibromomethane.
- (u) Methylene chloride; dichloromethane.
- (v) Methyl iodide; iodomethane.
- (w) 1,1,1,2-Tetrachloroethane.
- (x) 1,1,2,2-Tetrachloroethane.
- (y) Tetrachloroethylene; tetrachloroethene; perchloroethylene.
- (z) 1,1,1-Trichloroethane; methyl chloroform.
- (aa) 1,1,2-Trichloroethane.
- (bb) Trichloroethylene; trichloroethene.
- (cc) Trichlorofluoromethane.
- (dd) 1,2,3-Trichloropropane.
- (ee) Vinyl chloride.

(3) All of the following are aromatic volatile organic constituents:

- (a) Benzene.
- (b) Ethyl benzene.
- (c) Styrene.
- (d) Toluene.
- (e) Xylenes.

(4) The constituents listed in this rule shall be analyzed using methods that are contained in the publication entitled "Standard Methods for the Examination of Water and Wastewater, 19th edition," which is adopted by reference in R 299.4139, or by

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other methods approved by the director or his or her designee.

History: 1993 MR 9, Eff. Oct. 8, 1993; 1999 MR 3, Eff. Apr. 12, 1999; 2005 MR 19, Eff. Oct. 20, 2005.

R 299.4454

Source: 1998-2000 AACS.

PART 5. SOLID WASTE TRANSFER FACILITIES AND PROCESSING PLANTS

R 299.4501

Source: 1998-2000 AACS.

R 299.4502

Source: 1993 AACS.

R 299.4503

Source: 1982 AACS.

R 299.4504

Source: 1998-2000 AACS.

R 299.4505

Source: 1998-2000 AACS.

R 299.4506

Source: 1993 AACS.

R 299.4507

Source: 1993 AACS.

R 299.4508

Source: 1982 AACS.

R 299.4509

Source: 1993 AACS.

PART 6. SOLID WASTE TRANSPORTING UNITS

R 299.4601

Source: 1982 AACS.

R 299.4602

Source: 1982 AACS.

PART 7. SOLID WASTE MANAGEMENT PLANS

R 299.4701

Source: 1982 AACS.

R 299.4702

Source: 1982 AACS.

R 299.4703

Source: 1982 AACS.

R 299.4704

Source: 1982 AACS.

R 299.4705

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Source: 1982 AACS.

R 299.4706

Source: 1982 AACS.

R 299.4707

Source: 1982 AACS.

R 299.4708

Source: 1982 AACS.

R 299.4709

Source: 1982 AACS.

R 299.4710

Source: 1982 AACS.

R 299.4711

Source: 1982 AACS.

R 299.4712

Source: 1982 AACS.

PART 8. GRANTS

R 299.4801

Source: 1982 AACS.

R 299.4802

Source: 1982 AACS.

R 299.4803

Source: 1982 AACS.

R 299.4804

Source: 1982 AACS.

R 299.4805

Source: 1982 AACS.

R 299.4806

Source: 1982 AACS.

R 299.4807

Source: 1982 AACS.

PART 9. LANDFILL CONSTRUCTION PERMITS AND OPERATING LICENSES

R 299.4901

Source: 1998-2000 AACS.

R 299.4902

Source: 1998-2000 AACS.

R 299.4903

Source: 1998-2000 AACS.

R 299.4904

Source: 1998-2000 AACS.

R 299.4905

Source: 1993 AACS.

R 299.4906

Source: 1998-2000 AACS.

R 299.4907 Landfill groundwater monitoring; sampling and analysis requirements.

Rule 907. (1) The groundwater-monitoring program for a landfill shall include consistent sampling and analysis procedures that are designed to ensure monitoring results that provide an accurate representation of groundwater quality at the background and downgradient wells that are installed in compliance with R 299.4906. The owner or operator shall notify the director that the sampling and analysis program documentation has been placed in the operating record and that the program shall include procedures and techniques for all of the following:

- (a) Sample collection.
- (b) Sample preservation and shipment.
- (c) Analytical procedures.
- (d) Chain of custody control.
- (e) Quality assurance and quality control.

(2) The groundwater-monitoring program shall include sampling and analytical methods that are appropriate for groundwater sampling and that accurately measure hazardous constituents and other monitoring parameters in groundwater samples. Groundwater samples for metals shall be field-filtered before laboratory analysis, unless filtered samples alone will not accurately measure the concentration of metals in the given geologic setting, such as in permeable soils and karst terrains.

(3) The sampling procedures and frequency shall be protective of human health and the environment.

(4) Analytical methods that are used for groundwater monitoring samples shall be those specified in R 299.4450 to R 299.4454 and shall achieve practical quantitation limits approved by the director.

(5) Groundwater elevations shall be measured in each well immediately before purging each time groundwater is sampled. The owner or operator shall determine the rate and direction of groundwater flow each time groundwater is sampled. Groundwater elevations in wells that monitor the same disposal area shall be measured within a period of time that is short enough to avoid temporal variations in groundwater flow which could preclude an accurate determination of groundwater flow rate and direction.

(6) Groundwater elevations shall be determined by methods that are precise to 1/8 of an inch or 0.01 feet, as measured from the top of the well casing. The top of the well casing shall be related to a permanent reference point using United States geological survey datum.

(7) The owner and operator shall establish background groundwater quality in a hydraulically upgradient or background well or wells for each of the monitoring parameters or constituents that are required in the particular groundwater-monitoring program which applies to the unit, as determined under this part. Background groundwater quality may be established at wells that are not located hydraulically upgradient from the unit if the well meets the requirements of R 299.4906(1)(a).

(8) The number of samples that are collected to establish groundwater quality data shall be consistent with the appropriate statistical procedures that are determined under R 299.4908. For type II landfills, the sampling procedures shall be those specified in R 299.4440 for detection monitoring, R 299.4441 for assessment monitoring, and R 299.4444 for remedial action.

(9) All samples that are obtained shall be representative of the site's groundwater quality. To ensure a representative sample, before a sample for collection and analysis is obtained, each well shall be purged until dry or until not less than 3 times the amount of water in the well casing has been removed. Groundwater monitoring wells shall be sampled immediately after purging where recovery rates allow. Where detection monitoring wells are pumped dry during purging, samples shall be taken within 24 hours.

(10) If nondedicated pumps or mobile sampling equipment is used, the owner or operator shall use the following procedures to minimize the potential for the cross-contamination of samples:

(a) All groundwater-monitoring wells shall be sampled from upgradient to downgradient, except that monitoring wells that are located in areas of known groundwater contamination shall be sampled in order, from the least contaminated well to the most contaminated well.

(b) Each piece of equipment shall be thoroughly cleaned and rinsed with distilled water before use in each monitoring or detection well.

(c) Other procedures that are approved by the department.

(11) The owner and operator of a landfill shall submit all monitoring results to the director or his or her designee not later than 30 days after the end of the calendar quarter. The data must be submitted in a form and format specified by the department.

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(12) The owner and operator of a landfill shall sample and analyze groundwater in accordance with the publication entitled "Test Methods for Evaluating Solid Waste, Physical-Chemical Methods," EPA publication SW-846, 3rd edition, which is adopted by reference in R 299.4133, the publication entitled "Standard Methods for the Examination of Water and Wastewater, 19th edition," which is adopted by reference in R 299.4139, or by other methods approved by the director or his or her designee.

History: 1993 MR 9, Eff. Oct. 8, 1993; 1999 MR 3, Eff. Apr. 12, 1999; 2005 MR 19, Eff. Oct. 20, 2005.

R 299.4908 Landfill groundwater monitoring; statistical procedures.

Rule 908. (1) The owner and operator of a landfill shall evaluate groundwater-monitoring data for each hazardous constituent, except pH and conductivity, using 1 of the following statistical tests:

(a) A parametric analysis of variance (ANOVA) followed by multiple comparisons procedures to identify statistically significant evidence of contamination. The method shall include estimation and testing of the contrasts between each compliance well's mean and the background mean levels for each constituent.

(b) An analysis of variance (ANOVA) based on ranks followed by multiple comparisons procedures to identify statistically significant evidence of contamination. The method shall include estimation and testing of the contrasts between each compliance well's median and the background median levels for each constituent.

(c) A tolerance or prediction interval procedure in which an interval for each constituent is established from the distribution of the background data and the level of each constituent in each compliance well is compared to the upper tolerance or prediction limit.

(d) A control chart approach that gives control limits for each constituent.

(e) Another statistical test method that is in compliance with the performance standards of subrule (2) of this rule. The owner or operator shall place a justification for this alternative in the operating record and notify the director of the use of this alternative test. The justification shall demonstrate that the alternative method is in compliance with the performance standards of subrule (2) of this rule.

(2) Any statistical method chosen under subrule (1) of this rule shall be in compliance with all of the following performance standards:

(a) The statistical method used to evaluate groundwater-monitoring data shall be appropriate for the distribution of chemical parameters or hazardous constituents. If the distribution of the chemical parameters or hazardous constituents is shown by the owner or operator to be inappropriate for a normal theory test, then the data shall be transformed or a distribution-free theory test shall be used. If the distributions for the constituents differ, more than 1 statistical method may be needed.

(b) If an individual well comparison procedure is used to compare an individual compliance well constituent concentration with background constituent concentrations or a groundwater protection standard, the test shall be done at a type I error level of not less than 0.01 for each testing period. If a multiple comparisons procedure is used, the type I experiment wise error rate for each testing period shall be not less than 0.05; however, the type I error of not less than 0.01 for individual well comparisons shall be maintained. This performance standard does not apply to tolerance intervals, prediction intervals, or control charts.

(c) If a control chart approach is used to evaluate groundwater-monitoring data, the specific type of control chart and its associated parameter values shall be protective of human health and the environment. The parameters shall be determined after considering the number of samples in the background database, the data distribution, and the range of the concentration values for each constituent of concern.

(d) If a tolerance interval or a prediction interval is used to evaluate groundwater monitoring data, then the levels of confidence and, for tolerance intervals, the percentage of the population that the interval must contain shall be protective of human health and the environment. These parameters shall be determined after considering the number of samples in the background database, the data distribution, and the range of the concentration values for each constituent of concern.

(e) The statistical method shall account for data below the limit of detection with 1 or more statistical procedures that are protective of human health and the environment. Any practical quantitation limit (PQL) that is used in the statistical method shall be the lowest concentration level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions that are available to the facility.

(f) If necessary, the statistical method shall include procedures to control or correct for seasonal and spatial variability as well as temporal correlation in the data.

(3) The statistical test chosen shall be specified in the operating record and shall be conducted separately for each hazardous constituent at each well.

(4) The owner or operator shall determine whether or not there is a statistically significant increase over background values for each parameter or constituent required in the particular groundwater-monitoring program that applies to the unit.

(5) In determining whether a statistically significant increase has occurred, the owner or operator shall compare the groundwater quality of each parameter or constituent at each monitoring well that is designated under R 299.4906 to the

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background value of that constituent, according to the statistical procedures and performance standards specified in this rule.
(6) The owner or operator shall complete the statistical analysis at each monitoring well and submit the results within 30 days of the end of the calendar quarter in which sampling and analysis was conducted.

(7) Nothing in this rule prohibits the department from evaluating monitoring data using statistical procedures it deems appropriate at a given location.

(8) Verification sampling for any exceedance of the statistical limit must be completed within 90 days of the original sampling date.

History: 1993 MR 9, Eff. Oct. 8, 1993; 1999 MR 3, Eff. Apr. 12, 1999; 2005 MR 19, Eff. Oct. 20, 2005.

R 299.4909

Source: 1998-2000 AACS.

R 299.4910

Source: 1998-2000 AACS.

R 299.4911

Source: 1998-2000 AACS.

R 299.4912

Source: 1998-2000 AACS.

R 299.4913

Source: 1998-2000 AACS.

R 299.4914

Source: 1993 AACS.

R 299.4915

Source: 1998-2000 AACS.

R 299.4916

Source: 1998-2000 AACS.

R 299.4917

Source: 1998-2000 AACS.

R 299.4918

Source: 1998-2000 AACS.

R 299.4919

Source: 1998-2000 AACS.

R 299.4920

Source: 1993 AACS.

R 299.4921

Source: 1998-2000 AACS.

R 299.4922

Source: 1998-2000 AACS.

ENVIRONMENTAL RESPONSE DIVISION
SITE RECLAMATION GRANT/LOAN PROGRAM

R 299.5051

Source: 1991 AACS.

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R 299.5052
Source: 1991 AACS.

R 299.5053
Source: 1991 AACS.

R 299.5054
Source: 1991 AACS.

R 299.5055
Source: 1991 AACS.

R 299.5056
Source: 1991 AACS.

R 299.5057
Source: 1991 AACS.

R 299.5058
Source: 1991 AACS.

R 299.5059
Source: 1991 AACS.

R 299.5060
Source: 1991 AACS.

R 299.5061
Source: 1991 AACS.

ENVIRONMENTAL CONTAMINATION RESPONSE ACTIVITY

PART 1. GENERAL PROVISIONS

R 299.5101
Source: 2003 AACS.

R 299.5103
Source: 1990 AACS.

R 299.5105
Source: 1990 AACS.

R 299.5107
Source: 1990 AACS.

R 299.5109
Source: 1990 AACS.

R 299.5111
Source: 1990 AACS.

R 299.5113
Source: 1990 AACS.

R 299.5115
Source: 1990 AACS.

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PART 2. SITE IDENTIFICATION AND LIST

R 299.5201
Source: 1990 AACS.

R 299.5203
Source: 1990 AACS.

R 299.5205
Source: 1990 AACS.

R 299.5207
Source: 1990 AACS.

R 299.5209
Source: 1990 AACS.

R 299.5211
Source: 1990 AACS.

R 299.5213
Source: 1990 AACS.

R 299.5215
Source: 1990 AACS.

R 299.5217
Source: 1990 AACS.

PART 3. FUNDING

R 299.5301
Source: 1990 AACS.

R 299.5303
Source: 1990 AACS.

R 299.5305
Source: 1990 AACS.

PART 4. ALTERNATE WATER SUPPLIES

R 299.5401
Source: 1990 AACS.

R 299.5403
Source: 1990 AACS.

R 299.5405
Source: 1990 AACS.

R 299.5407
Source: 1990 AACS.

R 299.5409
Source: 1990 AACS.

R 299.5411

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Source: 1990 AACS.

R 299.5413

Source: 1990 AACS.

R 299.5415

Source: 1990 AACS.

PART 5. RESPONSE ACTIVITIES

R 299.5501

Source: 1990 AACS.

R 299.5503

Source: 1990 AACS.

R 299.5505

Source: 1990 AACS.

R 299.5507

Source: 1990 AACS.

R 299.5509

Source: 1990 AACS.

R 299.5511

Source: 1990 AACS.

R 299.5513

Source: 1990 AACS.

R 299.5515

Source: 1990 AACS.

R 299.5517

Source: 1990 AACS.

R 299.5519

Source: 1990 AACS.

PART 6. SELECTION OF REMEDIAL ACTION

R 299.5601

Source: 1990 AACS.

R 299.5603

Source: 1990 AACS.

R 299.5605

Source: 1990 AACS.

R 299.5607

Source: 1990 AACS.

PART 7. CLEANUP CRITERIA

R 299.5701

Source: 1990 AACS.

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R 299.5703
Source: 1990 AACS.

R 299.5705
Source: 1990 AACS.

R 299.5707
Source: 1990 AACS.

R 299.5709
Source: 1990 AACS.

R 299.5711
Source: 1990 AACS.

R 299.5713
Source: 1990 AACS.

R 299.5715
Source: 1990 AACS.

R 299.5717
Source: 1990 AACS.

R 299.5719
Source: 1990 AACS.

R 299.5721
Source: 1990 AACS.

R 299.5723
Source: 1990 AACS.

R 299.5725
Source: 1990 AACS.

R 299.5727
Source: 1990 AACS.

PART 8. SITE ASSESSMENT MODEL

R 299.5801
Source: 1990 AACS.

R 299.5803
Source: 1990 AACS.

R 299.5805
Source: 1990 AACS.

R 299.5807
Source: 1990 AACS.

R 299.5809
Source: 1990 AACS.

R 299.5811
Source: 1990 AACS.

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R 299.5813
Source: 1990 AACS.

R 299.5815
Source: 1990 AACS.

R 299.5817
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R 299.5819
Source: 1990 AACS.

R 299.5821
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R 299.5823
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PART 9. BASELINE ENVIRONMENTAL ASSESSMENTS

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R 299.5903
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R 299.5905
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R 299.5907
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R 299.5909
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R 299.5911
Source: 1998-2000 AACS.

R 299.5913
Source: 1998-2000 AACS.

R 299.5915
Source: 1998-2000 AACS.

R 299.5917
Source: 1998-2000 AACS.

R 299.5919
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R 299.6002
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R 299.6003
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R 299.6004
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R 299.6005
Source: 1987 AACS.

R 299.6006
Source: 1988 AACS.

R 299.6007
Source: 1988 AACS.

R 299.6008
Source: 1991 AACS.

R 299.6009
Source: 1991 AACS.

R 299.6010
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R 299.6011
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R 299.6101—R 299.7305
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R 299.8101
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R 299.8102
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R 299.8103
Source: 1981 AACS.

R 299.8104
Source: 1981 AACS.

R 299.8105
Source: 1981 AACS.

R 299.8106
Source: 1981 AACS.

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R 299.8107
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R 299.9002
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R 299.9004
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R 299.9005
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R 299.9006
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R 299.9101
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R 299.9102
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R 299.9103
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R 299.9104
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R 299.9105
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R 299.9106

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R 299.9108

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R 299.9205

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R 299.9206

Source: 1998-2000 AACS.

R 299.9207

Source: 1994 AACS.

R 299.9208

Source: 1985 AACS.

R 299.9209

Source: 1998-2000 AACS.

R 299.9210

Source: 1998-2000 AACS.

R 299.9211

Source: 1989 AACS.

R 299.9212

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R 299.9213

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R 299.9214

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R 299.9215

Source: 1988 AACS.

R 299.9216

Source: 1988 AACS.

R 299.9217

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R 299.9218

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R 299.9219

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R 299.9220

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R 299.9221

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R 299.9222

Source: 2004 AACS.

R 299.9223

Source: 1994 AACS.

R 299.9224

Source: 1998-2000 AACS.

R 299.9225

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R 299.9226

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R 299.9226

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R 299.9227

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R 299.9228

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R 299.9229

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R 299.9230

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PART 3. GENERATORS OF HAZARDOUS WASTE

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R 299.9302
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R 299.9303
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R 299.9304
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R 299.9305
Source: 1985 AACS.

R 299.9306
Source: 2004 AACS.

R 299.9307
Source: 2004 AACS.

R 299.9305
Source: 1985 AACS.

R 299.9308
Source: 1998-2000 AACS.

R 299.9309
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R 299.9310
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R 299.9311
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R 299.9312
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PART 4. TRANSPORTERS OF HAZARDOUS WASTE

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R 299.9402
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R 299.9403
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R 299.9404
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R 299.9405
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R 299.9406

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R 299.9407

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R 299.9408

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R 299.9409

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R 299.9410

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R 299.9411

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R 299.9412

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R 299.9413

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R 299.9504

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R 299.9505

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R 299.9506

Source: 1998-2000 AACS.

R 299.9507

Source: 1988 AACS.

R 299.9508

Source: 1998-2000 AACS.

R 299.9509

Source: 1998-2000 AACS.

R 299.9510

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R 299.9511

Source: 1998-2000 AACS.

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R 299.9512
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R 299.9513
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R 299.9514
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R 299.9515
Source: 1988 AACS.

R 299.9516
Source: 1996 AACS.

R 299.9517
Source: 1998-2000 AACS.

R 299.9518
Source: 1998-2000 AACS.

R 299.9519
Source: 2004 AACS.

R 299.9520
Source: 1998-2000 AACS.

R 299.9521
Source: 1996 AACS.

R 299.9522
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R 299.9523
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R 299.9524
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R 299.9525
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R 299.9602
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R 299.9603
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R 299.9604
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Source: 1998-2000 AACS.

R 299.9606

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R 299.9607

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R 299.9608

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R 299.9609

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R 299.9610

Source: 2004 AACS.

R 299.9611

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R 299.9612

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R 299.9613

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R 299.9614

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R 299.9615

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R 299.9616

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R 299.9617

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R 299.9618

Source: 1985 AACS.

R 299.9619

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R 299.9620

Source: 1998-2000 AACS.

R 299.9621

Source: 1998-2000 AACS.

R 299.9622

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R 299.9623

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R 299.9625
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R 299.9626
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R 299.9627
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R 299.9628
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R 299.9629
Source: 2004 AACCS.

R 299.9630
Source: 1994 AACCS.

R 299.9631
Source: 1994 AACCS.

R 299.9632
Source: 1994 AACCS.

R 299.9633
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R 299.9634
Source: 1998-2000 AACCS.

R 299.9635
Source: 2004 AACCS.

R 299.9636
Source: 1998-2000 AACCS.

R 299.9637
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R 299.9638
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R 299.9701
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R 299.9702
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R 299.9704

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R 299.9705

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R 299.9706

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R 299.9707

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R 299.9708

Source: 1998-2000 AACS.

R 299.9709

Source: 1998-2000 AACS.

R 299.9710

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R 299.9711

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R 299.9712

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**PART 8. MANAGEMENT OF SPECIFIC HAZARDOUS WASTES, SPECIFIC TYPES OF HAZARDOUS WASTE
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R 299.9801

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R 299.9802

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R 299.9803

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R 299.9804

Source: 1998-2000 AACS.

R 299.9805

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R 299.9806

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R 299.9807

Source: 1997 AACS.

R 299.9808

Source: 2004 AACS.

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R 299.9809
Source: 2004 AACS.

R 299.9810
Source: 1996 AACS.

R 299.9811
Source: 1996 AACS.

R 299.9812
Source: 1996 AACS.

R 299.9813
Source: 1996 AACS.

R 299.9814
Source: 1996 AACS.

R 299.9815
Source: 2004 AACS.

R 299.9816
Source: 1996 AACS.

R 299.9817
Source: 1998-2000 AACS.

R 299.9818
Source: 1998-2000 AACS.

R 299.9819
Source: 2004 AACS.

R 299.9820
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PART 9. HAZARDOUS WASTE SERVICE FUND

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R 299.11004
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R 299.11005
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R 299.12205
Source: 1989 AACS.

R 299.12206
Source: 1989 AACS.

R 299.12207
Source: 1989 AACS.

R 299.12208
Source: 1989 AACS.

R 299.12209
Source: 1989 AACS.

R 299.12210
Source: 1989 AACS.

R 299.12211
Source: 1989 AACS.

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R 299.12405
Source: 1989 AACS.

R 299.12406
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R 299.12504
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R 299.12505
Source: 1989 AACS.

R 299.12506
Source: 1989 AACS.

R 299.12507
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R 299.12508
Source: 1989 AACS.

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PART 6. SOLID WASTE PROGRAM ADMINISTRATION

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R 299.12606
Source: 1989 AACS.

R 299.12607
Source: 1989 AACS.

R 299.12608
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R 299.12609
Source: 1989 AACS.

R 299.12610
Source: 1989 AACS.

R 299.12611
Source: 1989 AACS.

R 299.12612
Source: 1989 AACS.

R 299.12613
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PART 7. STATE SOLID WASTE PROJECTS

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R 299.51009
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R 299.51011
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